ANDREW®
an Amphenol company

RF CONDITIONING SOLUTIONS

SIMPLE, RELIABLE AND BUILT TO SPEC

JUNE 2025

Smarter. Smaller. Greener.
RF conditioning for a better-connected future.

FOR HIGH-PERFORMANCE NETWORKS

As mobile operators embrace 5G, the challenge isn't just speed—it's integration. Supporting legacy services while deploying 5G means managing more antennas, tighter tower space, and increased risk of interference. The result? A more complex RAN and greater pressure on performance, cost, and sustainability.

At ANDREW, we simplify that complexity focusing on what matters most:

- Fast customization to meet diverse deployment needs
- Design innovation and simplification for faster, easier upgrades
- Reliability and performance for optimal throughput and PIM rejection

Backed by over 50 years of RF innovation, our comprehensive portfolio of multiband combiners and tower-mounted amplifiers—including models with integrated interference mitigation filters—helps you streamline your RAN, reduce installation time, and lower total cost of ownership.
Our solutions are engineered to deliver measurable benefits across your network:

- Customizable 700 MHz combiners: The smallest and lightest in their class, optimized for fast deployment, minimal footprint, and accelerated ROI.
- Field-proven multiband combiners: simplify your MIMO configurations, saving space, time, and cost.
- Ultra-compact designs: Enable site modernization by minimizing tower loading without compromising performance.
- Multiband tower-mounted amplifiers: Enhance coverage and capacity to maximize site footprint and service data throughput for improved uplink.
- Integrated interference mitigation: Filters out unwanted signals to protect network capacity and ensure performance.

Whether you're upgrading existing infrastructure or rolling out new 5G deployments, ANDREW's RF conditioning solutions help you build smarter, faster, and more sustainably.

EXPLORE OUR PORTFOLIO IN THIS GUIDE!

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Innovative Filter Solutions for Indoor DAS

WHAT'S NEW?

Take a look below for the latest updates to our product line catalog.

NEW PRODUCTS

MULTIBAND COMBINERS & ULTRA COMPACT COMBINERS:

· E14F11P26, Single Combiner, 555-2690/3300-5925/3300-4200 MHz

· E14F15P56, Twin Quadplexer 698-960/18/21/23-26, dc smart bypass

TOWER MOUNTED AMPLIFIER::

· E14R00P84, CS-TMA 18/21/26 F12 23/35 V6 2AISG42BYWL

DISCONTINUATIONS

These products are discontinued as of March 31, 2025.

Replacement models are listed below, where available. If you need assistance in selecting the most appropriate alternative model or have any questions regarding this discontinuation, please contact your ANDREW account manager.

Discontiued P/N	Description	Replacement P/N	Description
E14F05P87	Diplexer, 380–2200 MHz/2300–2690 MHz, DCauto, with 4.3-10 connectors	E14F05P20	Single Diplexer,380–2200/2300–2690 MHz,
			DC all bypass
E11F01P56	Triplexer 703-803//825-880//898.4-960 MHZ, dc bypass on all ports		
E11F05P55	Triplexer 900/1800/2300 MHz, dc bypass on all ports	E12F01P93	Single Triplexer 700-900/1700-2100/2300-2700, dc bypass on all ports
E12F03P44	Twin Diplexer, 2S-DPX D2-800/900 DC Bypass All ports, 4.3-10 connectors	E14F06P20	Twin Diplexer,700–800/900 MHz,DC all bypass
E12F03P59	2X Triplexer 1710-1880/1920-2170/2300-2690, dc bypass on all ports with 4.3-10 connectors	E12F01P81	Twin Triplexer,1800/2100/2300–2600 MHz,DC all bypass
E12F13P26	Twin Diplexer, 698–803/824-960MHz, DC Pass on all ports, 4.3-10		
E12F13P35-V	Twin Diplexer, 700/900 MHz, RJ40, dc block on all ports with connectors 4.3-10		
E12F13P50	2x Diplexer 824-880/890-960 MHz, DC Pass on all ports, 4.3-10		
E12V90P43	Twin Quadplexer 1800//2100//2300//2600 MHz, No DC bypass, with 4.3-10 connectors	E16V90P56	Twin Quadplexer 1800//2100//2300//2600 MHz, All ports DC bypass, with 4.3-10 connectors
E14F05P1690	Twin Diplexer, 1695-2200/2300-2700 MHz, dc Stop		
E14F05P1691	Twin Diplexer, 1695-2200/2300-2700 MHz, dc Stop		
E14F05P17	Twin Diplexer, DCS 1800/UMTS 2100, AISG compatible, dc pass all ports, with 4.3-10 connectors	E14F06P38	Twin Diplexer, 1325-1880/1920-2690, dc/AISG pass-through on all ports, with 4.3-10 connectors
E14F05P61	Twin 2-pak Diplexer, 1350–1525 MHz/1710–2690 MHz, DC bypass Low ports, with 4.3-10 connectors	E14F05P65	Twin 2-pak Diplexer, 1350–1525 MHz/1710–2690 MHz, DC bypass all ports, with 4.3-10 connectors
E14F05P63	Twin 2-pak Diplexer, 1350–1525 MHz/1710–2690 MHz, DC bypass High ports, with 4.3-10 connectors	E14F05P65	Twin 2-pak Diplexer, 1350–1525 MHz/1710–2690 MHz, DC bypass all ports, with 4.3-10 connectors
E14F05P69	Twin Diplexer, 380–2200 MHz/2300–2690 MHz, dc pass low paired with high, with 4.3-10 connectors	E14F05P21	Twin Diplexer, 380–2200 MHz/2300–2690 MHz, DC Pass,4.3-10
E14F05P77	Twin Diplexer 700/800 DC Bypass at 800MHz port, 4.3-10 connectors	E14F07P08	Twin Diplexer, 703-788/791-960 MHz, DC Pass on All port, 4.3-10 connectors
E14R00P05	Twin Tower Mounted Amplifier, Dual 2.6 GHz with AISG, with 4.3-10 connectors, rejection in 2700-3100MHz		
E14R00P43	Dual Band Tower Mounted Amplifier, 700//800 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 2 RET connectors (1 device with 2 sub-units), with 4.3-10 connectors	E14R00P41	Dual Band Tower Mounted Amplifier, 700//800 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (1 device with 2 sub-units), with 4.3-10 connectors
E14R00P44	Tower Mounted Amplifier 1800 with 1400 MHz bypass, AISG 2.0, with 4.3-10 connectors		
E14R02P27	Tower Mounted Amplifier, Dual 700 MHz with AISG 2.0		
E15V86P18	Twin Interference Mitigation Filter 814-879 MHz with 40 dB rejection in 880.1-915 MHz		
E15V86P1890	Twin Interference Mitigation Filter 814-879 MHz with 40 dB rejection in 880.1-915 MHz		
E15V86P1892	Twin Interference Mitigation Filter 814-879 MHz with 40 dB rejection in 880.1-915 MHz		
E15V86P3902	CS-IMF 894-960 RJ869-892 35dB		
E15V86P40	Interference Mitigation Filter 896-960 with Rejection in 824-894		

DISCONTINUATIONS

These products are discontinued as of March 31, 2025.

Replacement models are listed below, where available. If you need assistance in selecting the most appropriate alternative model or have any questions regarding this discontinuation, please contact your ANDREW account manager.

Discontiued P/N	Description	Replacement P/N	Description
E15V87P64	CS-IMF 2575-2615 RJ 26 38dB DC		TWIN-IMF 2600 MHz, B38 Rejects 2500-2570&2620-2690, 38dB
E15V88P10	Twin IMF 850 MHz		
E15V88P11	Twin 2100 MHz IMF w 1900 Rejection		
E15V90P24	SpectrumShare Passive Filter for UMTS 2100		
E15Z50P06	SpectrumShare Passive Combiner GSM 900		
E15V90P24	SpectrumShare Passive Filter for UMTS 2100		
E15Z50P06	SpectrumShare Passive Combiner GSM 900		

MULTIBAND COMBINERS

ANDREW multiband combiners (MBCs) make it easier for operators to expand their networks and roll out new technologies. Combining multiple frequency bands onto a common RF path, they enable antenna and feeder sharing so operators can leverage the cost efficiencies of co-siting opportunities.

Our portfolio of diplexers, triplexers, quadplexers and even pentaplexers helps you simplify site architectures to enable greater capacity for any application. Available in a variety of configurations, they support a wide range of wireless technologies and bands: GSM, CDMA, UMTS, LTE and 5G.

- Compact and ultra-compact designs enable deployment in tight spaces
- Integrated DC block/DC bypass versions enable application-specific performance
- Smart bypass and auto-sensing enable intelligent DC/AISG switching
- Load-sensing detects antenna ports with a load and passes DC/AISG to those ports only
- Ultra-wideband MBCs combine multiple low, mid, and high bands into one unit

All MBCs are designed, manufactured and tested to deliver high performance and meet industry standards. More than simplifying network modernization, ANDREW MBCs improve and extend the value of your entire RF path.

DIPLEXERS

Product Summary

P/N	Frequency (MHz)		Connector Type (Female)	Modularity	DC/AISG Bypass	Note
E14F55P27	0-490	694-3800	4.3-10	Single	DC low bypass	Standard
E14F06P45	694–862	880–960	4.3-10	Twin	Smart DC bypass	Standard
E14F06P72	1350-2200	2300-2700	4.3-10	Quad	DC low bypass	Standard
E14F06P51	617-698	703-960	4.3-10	Quad	All ports DC bypass	Standard
E12F13P25	703-803	898.4-960	4.3-10	Twin	All ports DC bypass	Standard
E14F05P30	380-960	1695-2690	4.3-10	Single	Smart DC bypass	Standard
E14F05P31	380-960	1695-2690	4.3-10	Double	Smart DC bypass	Standard
E14F06P82	380-960	1695-2690	4.3-10	Quad	Smart DC bypass	Standard
E11F02P72	694-862	880-960	7/16	Twin	All ports DC bypass	Standard
E12F05P96	1710-1880	1920-2170	4.3-10	Single	All ports DC bypass	Standard
E14F05P17	1710-1880	1920-2170	4.3-10	Twin	All ports DC bypass	Standard
E11F02P17	TDD: 2575-2595	FDD: 2500-2520 2620-2640	7/16	Twin	All ports DC bypass	Standard
E14F05P97	TDD: 2575.5-2614.5	FDD: 2500-2569.5 2620.5-2690	4.3-10	Single	All ports DC block	Standard
E14F05P65	1350-1525	1710-2690	4.3-10	Twin	All ports DC bypass	Standard
E14F05P66	1350-1525	1710-2690	4.3-10	Twin	Smart DC bypass	Standard
E14F05P57	380-960	1425-2690	4.3-10	Single	All ports DC bypass	Standard
E14F05P58	380-960	1425-2690	4.3-10	Twin	All ports DC bypass	Standard
E14F05P59	380-960	1425-2690	4.3-10	Twin	Smart DC bypass	Standard
E14F05P20	380-2200	2300-2690	4.3-10	Single	All ports DC bypass	Standard

DIPLEXERS

Product Summary

P/N	Frequency (MHz)		Connector Type (Female)	Modularity	DC/AISG Bypass	Note
E14F05P21	380-2200	2300-2690	4.3-10	Twin	All ports DC bypass	Standard
E14F05P26	380-2200	2300-2690	4.3-10	Twin	Smart DC bypass	Standard
E14F06P54	703-788	796-842	4.3-10	Twin	Smart DC bypass	Standard
E12F03P88	1710-1880	1920-2690	4.3-10	Twin	All ports DC block	Ultra Compact
E14F06P38	1350-1880	1920-2690	4.3-10	Twin	All ports DC bypass	Standard
E14F06P48	1350-2200	2300-2700	4.3-10	Twin	All ports DC bypass	Standard
E14F06P61	1350-2200	2300-2700	4.3-10	Twin	Smart DC bypass	Standard
E14F55P08	380-960	1695-2690	4.3-10	Twin	Low ports DC bypass	Ultra Compact
E14F55P09	1695-2200	2300-2690	4.3-10	Twin	All ports DC block	Ultra Compact
E14F55P17	1695-2200	2300-2690	4.3-10	Quad	All ports DC block	Ultra Compact
E14F55P16	1695-2200	2500-2690	4.3-10	Twin	All ports DC block	Ultra Compact
E14F55P19	1695-2200	2500-2690	4.3-10	Quad	All ports DC block	Ultra Compact
E14F06P05	694-842	880-960	4.3-10	Single	All ports DC block	Ultra Compact
E14F05P89	694-842	880-960	4.3-10	Twin	All ports DC block	Ultra Compact
E12F03P46	2300-2400	2496-2690	4.3-10	Twin	All ports DC block	Ultra Compact
E12F03P47	2300-2400	2496-2690	4.3-10	Quad	All ports DC block	Ultra Compact
E14F06P71	1710-1880	1920-2690	4.3-10	Quad	All ports DC block	Ultra Compact
E14F06P70	2550-2570	2670-2690	4.3-10	Quad	All ports DC block	Ultra Compact
E14F06P06	80-2690	3300-5925	4.3-10	Single	Low ports DC bypass	Ultra Compact
E14F06P88	80-2690	3300-5925	4.3-10	Single	Low ports DC bypass	Ultra Compact
E14F06P07	80-2690	3300-5925	4.3-10	Twin	Low ports DC bypass	Ultra Compact
E14F06P86	80-2690	3300-5925	4.3-10	Twin	Low ports DC bypass	Ultra Compact
E14F06P08	80-2690	3300-5925	4.3-10	Quad	Low ports DC bypass	Ultra Compact
E14F06P00	80-2690	3300-5925	4.3-10	Octa	Low ports DC bypass	Ultra Compact
E14F06P04	2300-2400	2570-2595	4.3-10/Next10	Octa	All ports DC block	Ultra Compact
E14F06P80	3300-3670	3700-3980	4.3-10	Quad	DC high bypass	Ultra Compact
E14F06P41YY						

MULTIBAND COMBINERS

Diplexers

0–490/694–3800 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E14F07P24*	Twin Diplexer 0–490/612–4200 MHz, DC low bypass	•		4.3–10 female	

617–698/703–960 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Quad	E14F06P51	Quad Diplexer, 617–698/703–960, DC all bypass	•	•	4.3–10 female	

703–803/898.4–960 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	E12F13P25	Twin Diplexer, 703–803/898.4–960 MHz, DC all bypass RJ40	•	•	4.3–10 female	

825–880/898.4–960 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E11F01P79	Single Diplexer, 825–880/897.5–950 MHz, DC all bypass	•	•	7–16 DIN female	

703–768/791–960 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Twin	E11F03P98	Twin Diplexer, 703–768 / 791–960 MHz, DC bypass on low band port of Module 1 and high band port of Module 2	DC bypass on low band port of Module 1 and high band port of Module 2		7–16 DIN female	

MULTIBAND COMBINERS

Diplexers

380–960/1695–2690 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E14F05P30	Single Diplexer, 380–960/1695–2690 MHz, DC smart bypass	DC smart bypass		4.3–10 female	
Double	E14F05P31	Twin Diplexer, 380–960/1695–2690 MHz, DC smart bypass	DC smart bypass		4.3–10 female	
Quad	E14F06P82	Quad Diplexer, 380–960 MHz/1695–2690 MHz, DC smart bypass	DC smart bypass		4.3–10 female	

612-960/1695-2700/3300-4200 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Twin	E14F11P27	Twin Triplexer, 612-960/1695-2700/3300-4200 MHz	DC smart bypass		4.3–10 female	

MULTIBAND COMBINERS

Diplexers

694–862/880–960 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	E14F06P45	Twin Diplexer, 700–800/900 MHz, DC smart bypass	DC smart bypass		4.3–10 female	
	E14F06P20	Twin Diplexer, 700–800/900 MHz, DC all bypass	•	•	4.3–10 female	

703-788/791-960 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	E14F55P26	Twin Diplexer, 703-788/811-960 MHz, DC smart bypass	DC smart bypass		4.3–10 female	
	E14F55P25	Twin Diplexer, 703-768/791-935 MHz, DC all bypass	•	•	4.3–10 female	

700-900/LoRa

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E14F06P77 (*)	Single Diplexer, 700-900/863-870 DC low bypass	•	•	4.3–10 female	

(*) Designed for network Modernization, introduction of LoRa system on existing site

MULTIBAND COMBINERS

Diplexers

1710–1880/1920–2170 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E12F05P96	Single Diplexer 1800/2100 MHz, DC all bypass	•	•	4.3–10 female	
Double	E14F05P17	Twin Diplexer, 1800/2100 MHz, DC all bypass	•	•	4.3–10 female	

612-960/1695-2700/3300-4200 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Twin	E14F11P27	Twin Triplexer 612-960/1695-2700/3300-4200 MHz	DC smart bypass		4.3–10 female	

MULTIBAND COMBINERS

Diplexers

FDD/TDD 2600 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E14F05P97	Single Diplexer, 26/2575–2615 MHz, DC all bypass with DC block	•	•	4.3–10 female	
Double	E11F02P17	Twin Diplexer, 2500–2520 & 2620–2640/2575–2595 MHz	•	•	7–16 DIN female	

1350–1525/1710–2690 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	E14F05P61	Twin Diplexer, 1350–1525/1710–2690 MHz, DC low bypass	•		4.3–10 female	
Double	E14F05P63	Twin Diplexer, 1350–1525/1710–2690 MHz, DC high bypass		•	4.3–10 female	
Double	E14F05P65	Twin Diplexer, 1350–1525/1710–2690 MHz, DC all bypass	•	•	4.3–10 female	
Double	E14F05P66	Twin Diplexer, 1350–1525/1710–2690 MHz, DC smart bypass	DC smart bypass		4.3–10 female	

MULTIBAND COMBINERS

Diplexers

1350–1880/1920–2690 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	E14F06P38	Twin Diplexer, 1350–1880/1920–2690 MHz, DC all bypass	•	•	4.3–10 female	
Twin	E14F06P41YY	Twin Diplexer, 1350–1880/1920–2690 MHz, DC auto	DC smart bypass		4.3–10 female	

1350-2200/2300-2700 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E14F06P58*	Single Diplexer, 1400-1800-2100/2300-2600 MHz, DC all bypass	•	•	4.3–10 female	
Double	E14F06P48	Twin Diplexer, 1400-1800-2100/2300-2600 MHz, DC all bypass	•	•	4.3–10 female	
Double	E14F06P61	Twin Diplexer, 1400-1800-2100/2300-2600 MHz, DC smart bypass	DC smart bypass		4.3–10 female	

612-2700/2300 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Quad	E14F06P99	Quad Diplxer, 612-2700/23, DC/AISG bypass on all ports	•	•	4.3–10 female	

* Please contact ANDREW Technical Support to learn more about this product.

MULTIBAND COMBINERS

Diplexers

380–960/1425–2690 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E14F05P57	Single Diplexer, 380–960/1425–2690 MHz, DC all bypass	•	•	4.3–10 female	
Double	E14F05P59	Twin Diplexer, 380–960/1425–2690 MHz, DC smart bypass	DC smart bypass		4.3–10 female	

MULTIBAND COMBINERS

Diplexers

380–2200/2300–2690 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E14F05P20	Single Diplexer, 380–2200/2300–2690 MHz, DC all bypass	•	•	4.3–10 female	
	E14F05P87	Single Diplexer, 380–2200/2300–2690 MHz, DC smart bypass	DC smart bypass		4.3–10 female	
Double	E14F05P21	Twin Diplexer, 380–2200/2300–2690 MHz, DC all bypass	•	•	4.3–10 female	
	E14F05P26	Twin Diplexer, 380–2200/2300–2690 MHz, DC smart bypass	DC smart bypass		4.3–10 female	
	E14F05P69	Twin Diplexer, 380–2200/2300–2690 MHz, DC Low/High Bypass	•(*)	•(*)	4.3–10 female	

(*) DC bypass on low band port for Unit 1 and DC bypass on high band port for Unit 2

MULTIBAND COMBINERS

Diplexers

718–778/791–842 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	E14F05P77	Twin Diplexer, 718–778/791–842 MHz, DC high bypass (clamshell design)		•	4.3–10 female	
	E14F05P81	Twin Diplexer, 718–778/791–842 MHz, DC high bypass (double unit)		•	4.3–10 female	

MULTIBAND COMBINERS

Diplexers

703–778/796–842 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	E14F06P54	Twin Diplexer, 703-788/796-842 MHz, DC smart bypass	DC smart bypass		4.3–10 female	

07/08-09 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Twin	E14F07P08	Twin Diplexer, 07/08-09, DC/AISG bypass on all port	•	•	4.3–10 female	

07/08-09 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Twin	E14F06P79	Twin Diplexer, 07/08-09, DC/AISG smart bypass	DC smart bypass		4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Diplexers

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	E14F55P08	Ultra Compact Twin Diplexer, 380–960/1695–2690 MHz, DC low bypass	•		4.3–10 female	
Double	E14F55P09	Ultra Compact Twin Diplexer, 1695–2200/2300–2690 MHz, DC block			4.3–10 female	
Quad	E14F55P17	Ultra Compact Quad Diplexer, 1695–2200/2300–2690 MHz, DC block			4.3–10 female	
Double	E14F55P16	Ultra Compact Twin Diplexer, 1695–2200/2500–2690 MHz, DC block			4.3–10 female	
Quad	E14F55P19	Ultra Compact Quad Diplexer, 1695–2200/2500–2690 MHz, DC block			4.3–10 female	
Single	E14F06P05	Ultra Compact Single Diplexer, 700–800/900 MHz, DC block			4.3–10 female	
Double	E14F05P89	Ultra Compact Twin Diplexer, 700–800/900 MHz, DC block			4.3–10 female	
Double	E12F03P46	Ultra Compact Twin Diplexer, 2300/2600 MHz, DC block			4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Diplexers

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Quad	E12F03P47	Ultra Compact Quad Diplexer, 2300/2600 MHz, DC block			4.3–10 female	
Single	E14F06P06	Ultra Compact Single Diplexer, 80–2690/3300–5925 MHz, DC low bypass	•		4.3–10 female	
Single	E14F06P88	Ultra Compact Single Diplexer 80-2690MHz/3300-5925MHz, DC low bypass	•		4.3–10 female	
Double	E14F06P07	Ultra Compact Twin Diplexer, 80–2690/3300–5925 MHz, DC low bypass (-161 dBc)	•		4.3–10 female	
Double	E14F06P86	Ultra Compact Twin Diplexer 80-2690MHz/3300-5925MHz, DC low bypass	•		4.3–10 female	
Quad	E14F06P08	Ultra Compact Quad Diplexer 80-2690/3300-5925 MHz	•		4.3–10 female	
Octa	E14F06P00	Ultra Compact Octa Diplexer 80-2690/3300-5925 MHz	•		4.3–10 female	
Double	E12F03P88	Ultra Compact Twin Diplexer 1710-1880/1920-2690 MHz DC block			4.3–10 female	
Double	E14F06P80	Ultra Compact Quad Diplexer 3300-3670/3700-3980 MHz, DC high bypass		•	4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Diplexers

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Quad	E14F06P70	Ultra Compact Quad Diplexer 2550-2570/2670-2690 MHz, DC block all ports			4.3-10 female	
Quad	E14F06P71	Ultra Compact Quad Diplexer, 1800/2100-2600 MHz, DC block all ports			4.3-10 female	
Quad	E14F06P72	Ultra Compact Quad Diplexer 1350-2200/2300-2700 MHz, DC low bypass	•		4.3-10 female	
Octa	E14F06P04	Ultra Compact Octa Diplexer, 2300-2400/2570-2595 MHz			4.3-10 female (ANT side) Nex10 (BTS side)	

* Please contact ANDREW Technical Support to learn more about this product.

TRIPLEXERS

Product Summary

P/N	Frequency (MHz)			Connector Type (Female)	Modularity	DC/AISG Bypass	Note
E12F01P93	698-960	1710-2170	2300-2600	4.3-10	Single	All ports DC bypass	Standard
E14F10P16	698-960	1710-2170	2300-2600	4.3-10	Twin	Smart DC bypass	Standard
E14F10P51	617-960	1695-2200	2300-2700	4.3-10	Single	Smart DC bypass	Standard
E14F10P52	617-960	1695-2200	2300-2700	4.3-10	Twin	Smart DC bypass	Standard
E14F10P53	617-960	1695-2200	2300-2700	4.3-10	Quad	Smart DC bypass	Standard
E14F10P97	380-960	1350-2200	2300-2700	4.3-10	Twin	All ports DC bypass	Standard
E14F11P05	380-960	1350-2200	2300-2700	4.3-10	Twin	Smart DC bypass	Standard
E14F10P07	694-862	880-960	1710-2690	4.3-10	Single	All ports DC bypass	Standard
E14F10P08	694-862	880-960	1710-2690	4.3-10	Twin	All ports DC bypass	Standard
E14F10P10	694-862	880-960	1710-2690	4.3-10	Twin	Smart DC bypass	Standard
E14F60P19	703-862	880-960	1350-2700	4.3-10	Twin	Smart DC bypass	Standard
E12F01P80	1710-1880	1920-2170	2300-2690	4.3-10	Single	All ports DC bypass	Standard
E12F01P81	1710-1880	1920-2170	2300-2690	4.3-10	Twin	All ports DC bypass	Standard
E14F10P17	1710-1880	1920-2170	2300-2690	4.3-10	Twin	Smart DC bypass	Standard
E14F10P29	1350-1525	1710-1880	1920-2690	4.3-10	Twin	Smart DC bypass	Standard
E14F11P11	703-788	811-862	890-950	4.3-10	Twin	Smart DC bypass	Standard
E14F11P17	703-788	801-852	890-951	4.3-10	Twin	DC block	Standard
E14F10P32	1695-2200	2300-2400	2500-2690	4.3-10	Twin	Smart DC bypass	Standard
E14F10P33	1695-2200	2300-2400	2500-2690	4.3-10	Quad	Smart DC bypass	Standard
E14F10P81	380-960	1350-1880	1920-2690	4.3-10	Ultra Compact Single	All ports DC bypass	Standard
E14F10P85	380-960	1350-1880	1920-2690	4.3-10	Twin	All ports DC bypass	Standard

TRIPLEXERS

Product Summary

P/N	Frequency (MHz)			Connector Type (Female)	Modularity	DC/AISG Bypass	Note
E14F10P89	380-960	1350-1880	1920-2690	4.3-10	Twin	Smart DC bypass	Standard
E14F10P54	1710-1880	1920-2170	2300-2700	4.3-10	Single	All ports DC block	Ultra Compact
E14F10P46	1710-1880	1920-2170	2300-2700	4.3-10	Twin	All ports DC block	Ultra Compact
E14F10P60	1710-1880	1920-2170	2300-2700	4.3-10	Quad	All ports DC block	Ultra Compact
E14F60P01	1695-2690	3400-3800	5150-5925	4.3-10	Twin	Low ports DC bypass	Ultra Compact
E14F60P02	1695-2690	3400-3800	5150-5925	4.3-10	Quad	Low ports DC bypass	Ultra Compact
E14F10P63	617-960	1695-2700	3400-4200	4.3-10	Twin	All ports DC block	Ultra Compact
E14F10P64	617-960	1695-2700	3400-4200	4.3-10	Twin	All ports DC block	Ultra Compact
E14F10P78	380-960	1350-1880	1920-2690	4.3-10	Single	Low ports DC bypass	Ultra Compact
E14F10P79	380-960	1350-1880	1920-2690	4.3-10	Twin	Low ports DC bypass	Ultra Compact
E14F10P80	380-960	1350-1880	1920-2690	4.3-10	Quad	Low ports DC bypass	Ultra Compact
E14F10P68	380-2200	2300-2700	3300-4200	4.3-10	Twin	All ports DC block	Ultra Compact
E14F10P94	380-2200	2300-2700	3300-4200	4.3-10	Single	Low ports DC bypass	Ultra Compact
E14F10P95	380-960	1350-1880	1920-3800	4.3-10	Single	Low ports DC bypass	Ultra Compact
E12F03P90	1800	2100	2300-3600	4.3-10	Twin	DC block	Ultra Compact
E14F07P01	1800	2100	2300-3600	4.3-10	Quad	DC block	Ultra Compact

MULTIBAND COMBINERS

Triplexers

698–960/1710–2170/2300–2690 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Single	E12F01P93	Single Triplexer. 7-9/17-21/23-27 DC bypass all	•	•	•	4.3–10 female	
Double	E14F10P16	Twin Triplexer, 698–960/1800–2100/2300–2600 MHz, DC smart bypass	DC smart bypass			4.3–10 female	

MULTIBAND COMBINERS

Triplexers

380–960/1350–2200/2300–2690 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F11P05	Twin Triplexer, 380-960/1350-2200/2300-2690 MHz, DC smart bypass	DC smart bypass			4.3–10 female	
Double	E14F10P97	Twin Triplexer, 380-960/1400-1800-2100/2300-2600 MHz, DC all bypass	•	•	•	4.3–10 female	

380–960/1695–2200/2300–2700 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Single	E14F10P51	Single Triplexer, 380-960/1695-2200/2300-2700 MHz, DC all bypass	DC smart bypass			4.3–10 female	
Twin	E14F10P52	Twin Triplexer, 380-960/1695-2200/2300-2700 MHz, DC all bypass	DC smart bypass			4.3–10 female	
Quad	E14F10P53	Quad Triplexer, 380-960/1695-2200/2300-2700 MHz, DC all bypass	DC smart bypass			4.3–10 female	

* Please contact ANDREW Technical Support to learn more about this product.

MULTIBAND COMBINERS

Triplexers

694–862/880–960/1710–2690 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Single	E14F10P07	Single Triplexer, 700–800/900/1800–2100–2300–2600 MHz, DC all bypass	•	•	•	4.3–10 female	
Double	E14F10P08	Twin Triplexer, 700–800/900/1800–2100–2300–2600 MHz, DC all bypass	•	•	•	4.3–10 female	
	E14F10P10	Twin Triplexer, 700–800/900/1800–2100–2300–2600 MHz, DC smart bypass	DC smart bypass			4.3–10 female	

MULTIBAND COMBINERS

Triplexers

703–862/880–960/1350–2700 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F60P19	Twin Triplexer, 703-862/880-960/1350-2700 MHz DC smart bypass	DC smart bypass			4.3-10 female	
Double	E14F60P22*	Twin Triplexer, 703-862/880-960/1350-2700 MHz DC bypass high			•	4.3-10 female	

* Please contact ANDREW Technical Support to learn more about this product.

MULTIBAND COMBINERS

Triplexers

1710–1880/1920–2170/2300–2690 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E12F01P81	Twin Triplexer, 1800/2100/2300–2600 MHz, DC all bypass	•	•	•	4.3–10 female	
	E14F10P17	Twin Triplexer, 1800/2100/2300–2600 MHz, DC smart bypass	DC smart bypass			4.3–10 female	

MULTIBAND COMBINERS

Triplexers

1350–1525/1710–1880/1920–2690 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F10P29	Twin Triplexer, 1350–1525/1800/2100–2300– 2600 MHz, DC smart bypass	DC smart bypass			4.3–10 female	

1695–2200/2300–2400/2500–2690 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F10P32	Twin Triplexer, 1800–2100/2300/2600 MHz, DC smart bypass	DC smart bypass			4.3–10 female	
Double	E14F10P33	Quad Triplexer, 1800–2100/2300/2600 MHz, DC smart bypass	DC smart bypass			4.3–10 female	

* Please contact ANDREW Technical Support to learn more about this product.

MULTIBAND COMBINERS

Triplexers

380–960/1350–1880/1920–2690 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F10P89	Twin Triplexer, 380-960/1350-1880/1920-2690 MHz, DC smart bypass	DC smart bypass			4.3–10 female	
Double	E14F10P85	Twin Triplexer, 380-960/1350-1880/1920-2690 MHz, DC all bypass	•	•	•	4.3–10 female	

700/800/900 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F11P11	Twin Triplexer, 703-788/811-862/890-950 MHz, DC smart bypass	DC smart bypass			4.3–10 female	
Twin	E14F11P17	Twin Triplexer, 703-788/801-852/890-951 MHz, DC block on all ports, 4.3-10 connectors	DC block			4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Triplexers

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Single	E14F10P54	Ultra Compact Single Triplexer, 1800/2100/2300–2600 MHz				4.3–10 female	
Double	E14F10P46	Ultra Compact Twin Triplexer, 1800/2100/2300–2600 MHz				4.3–10 female	
Double	E14F10P60	Ultra Compact Quad Triplexer, 1800/21/2300–2600 MHz				4.3–10 female	
Double	E14F60P01	Ultra Compact Twin Triplexer, 1695–2690/3400–3800/5150– 5925 MHz, DC low bypass	•			4.3–10 female	
Double	E14F60P02	Ultra Compact Quad Triplexer, 1695–2690/3400–3800/5150– 5925 MHz, DC low bypass	•			4.3–10 female	
Single	E14F10P78	Ultra Compact Single Triplexer, 698–960/1350–1880/1920–2690 MHz, DC low bypass	•			4.3–10 female	
Double	E14F10P79	Ultra Compact Twin Triplexer, 698–960/1350–1880/1920–2690 MHz, DC low bypass	•			4.3–10 female	
Quad	E14F10P80	Ultra Compact Quad Triplexer, 698–960/1350–1880/1920–2690 MHz, DC low bypass	•			4.3–10 female	
Single	E14F10P81	Ultra Compact Single Triplexer 380–960/1350–1880/1920–2690 MHz, DC bypass all	•	•	•	4.3–10 female	
Quad	E14F10P68	Ultra Compact Quad Triplexer, 380–2200/2300–2700/3300–4200 MHz	•			4.3–10 female	
Single	E14F10P94	Single Triplexer, 380–2200/2300–2690/3300–4200 MHz, DC bypass low	•			4.3–10 female	
Single	E14F10P95	Single Triplexer, 380–960/1400–1800/1920–3800 MHz, DC bypass low	•			4.3–10 female	
Twin	E12F03P90	Ultra Compact Twin Triplexer 18/21/23-26	DC block			4.3–10 female	
Quad	E14F07P01	Ultra Compact Quad Triplexer 18/21/23-26	DC block			4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Triplexers

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F10P63	Ultra Compact Twin Triplexer, 617-960/1695-2700/3400-4200 MHz, DC low bypass	•			4.3-10 female	
Double	E14F10P64	Ultra Compact Quad Triplexer, 617-960/1695-2700/3400-4200 MHz, DC low bypass	•			4.3-10 female	

QUADPLEXERS

Product Summary

P/N	Frequency (MHz)				Connector Type (Female)	Modularity	DC/AISG Bypass	Note
E14F15P13	698-960	1710-1880	1920-2170	2300-2690	4.3-10	Single	All ports DC bypass	Standard
E16V90P34	698-960	1710-1880	1920-2170	2300-2690	4.3-10	Twin	All ports DC bypass	Standard
E16V90P58	698-960	1710-1880	1920-2170	2300-2690	4.3-10	Twin	Smart DC bypass	Standard
E14F15P09	694-862	880-960	1710-1880	1920-2690	4.3-10	Single	All ports DC bypass	Standard
E14F15P10	694-862	880-960	1710-1880	1920-2690	4.3-10	Twin	All ports DC bypass	Standard
E14F15P12	694-862	880-960	1710-1880	1920-2690	4.3-10	Twin	Smart DC bypass	Standard
E14F15P43	698-862	880-960	1710-2170	2300-2700	4.3-10	Twin	Smart DC bypass	Standard
E14F15P19	698-960	1710-1880	1920-2170	2300-2700	4.3-10	Single	Low ports DC bypass	Ultra Compact
E14F15P17	698-960	1710-1880	1920-2170	2300-2700	4.3-10	Twin	Low ports DC bypass	Ultra Compact
E14F15P24	1425-1880	1920-2170	2300-2690	3500-3700	4.3-10	Single	All ports DC bypass	Ultra Compact
E14F15P23	1425-1880	1920-2170	2300-2690	3500-3700	4.3-10	Twin	All ports DC bypass	Ultra Compact
E14F15P31	1350-1880	1920-2170	2300-2400	2496-2700	4.3-10	Twin	All ports DC block	Ultra Compact
E14F15P32	1350-1880	1920-2170	2300-2400	2496-2700	4.3-10	Quad	All ports DC block	Ultra Compact
E14F15P33	1350-2200	2300-2400	2496-2700	3300-4200	4.3-10	Twin	All ports DC block	Ultra Compact
E16V90P56	1710-1880	1920-2170	2300-2400	2500-2690	4.3-10	Twin	All ports DC bypass	Standard
E16V90P57	1710-1880	1920-2170	2300-2400	2500-2690	4.3-10	Twin	Smart DC bypass	Standard
E12F23P20	825-880	906.8-960	1710-1880	1920-2170	4.3-10	Twin	Smart DC bypass	Standard
E14F15P34	380-960	1350-1880	1920-2170	2300-3800	4.3-10	Single	Low ports DC bypass	Ultra Compact
E14F15P44	617-960	1350-2200	2300	2600	4.3-10	Quad	DC bypass	Ultra Compact
E14F15P47	612-960	1350-2200	2300-2400	2496-2700	4.3-10	Quad	Low ports DC bypass	Ultra Compact
E14F11P28	612-960	1695-2700	3300-4200		4.3-10	Quad		Standard

MULTIBAND COMBINERS

Quadplexers

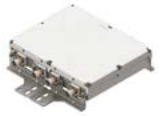
698–960/1710–1880/1920–2170/2300–2690 MHz

Package	Part Number	Description	DC Bypass				Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4		
Single	E14F15P13	Quadplexer, 698–960/1800/2100/2300–2600 MHz, DC all bypass	•	•	•	•	4.3–10 female	
	E16V90P39	Quadplexer, 698–960/1800/2100/2300–2600 MHz, DC 2100 MHz			•		4.3–10 female	
	E16V90P48	Quadplexer, 698–960/1800/2100/2300–2600 MHz, DC 2300–2600 MHz				•	4.3–10 female	
Double	E16V90P34	Twin Quadplexer, 698–960/1800/2100/2300–2600 MHz, DC all bypass	•	•	•	•	4.3–10 female	
	E16V90P40	Twin Quadplexer, 698–960/1800/2100/2300–2600 MHz, DC 2100 MHz			•		4.3–10 female	
	E16V90P49	Twin Quadplexer, 698–960/1800/2100/2300–2600 MHz, DC 2300–2600 MHz				•	4.3–10 female	
	E16V90P58	Twin Quadplexer, 698–960/1800/2100/2300–2600 MHz, DC smart bypass	DC smart bypass				4.3–10 female	
Twin	E14F15P56	Twin Quadplexer 698-960/18/21/23-26, dc smart bypass with 4.3-10 connectors	DC smart bypass				4.3–10 female	

MULTIBAND COMBINERS

Quadplexers

694–862/880–960/1710–1880/1920–2690 MHz

Package	Part Number	Description	DC Bypass				Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4		
Single	E14F15P09	Quadplexer, 700–800/900/1800/2100–2300–2600 MHz, DC all bypass	•	•	•	•	4.3–10 female	
Double	E14F15P10	Twin Quadplexer, 700–800/900/1800/2100–2300–2600 MHz, DC all bypass	•	•	•	•	4.3–10 female	
	E14F15P12	Twin Quadplexer, 700–800/900/1800/2100–2300–2600 MHz, DC smart bypass	DC smart bypass				4.3–10 female	

MULTIBAND COMBINERS

Quadplexers

1710–1880/1920–2170/2300–2400/2500–2690 MHz

Package	Part Number	Description	DC Bypass				Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4		
Double	E15V90P50*	Twin Quadplexer, 1800/2100/2300/2600 MHz, DC 1800 MHz	•				7–16 DIN female	
	E15V90P51*	Twin Quadplexer, 1800/2100/2300/2600 MHz, DC 2100 MHz		•			7–16 DIN female	
	E15V90P52*	Twin Quadplexer, 1800/2100/2300/2600 MHz, DC 2300 MHz			•		7–16 DIN female	
	E15V90P53*	Twin Quadplexer, 1800/2100/2300/2600 MHz, DC 2600 MHz				•	7–16 DIN female	
	E15V90P55*	Twin Quadplexer, 1800/2100/2300/2600 MHz, DC Switch	DC switch manual				7–16 DIN female	
	E16V90P56	Twin Quadplexer, 18/21/23/26, DC all bypass	•	•	•	•	4.3–10 female	
	E16V90P57	Twin Quadplexer, 1800/2100/2300/2600 MHz, DC smart bypass	DC smart bypass				4.3–10 female	

* Please contact ANDREW Technical Support to learn more about this product.

MULTIBAND COMBINERS

Quadplexers

698–862/880–960/1710–2170/2300–2700 MHz

Package	Part Number	Description	DC Bypass				Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4		
Double	E14F15P43	Twin Quadplexer, 698–862/880–960/1710–2170/2300–2700 MHz, DC smart bypass	DC smart bypass				4.3–10 female	

825–880/906.8–960/1710–1880/1920–2170 MHz

Package	Part Number	Description	DC Bypass				Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4		
Double	E11F23P10*	Twin Quadplexer, 825–880/906.8– 960/1800/2100 MHz, DC all bypass 10 dB rej	•	•	•	•	7–16 DIN female	
	E12F23P20	Twin Quadplexer, 825–880/906.8– 960/1800/2100 MHz, DC smart bypass	DC smart bypass				4.3–10 female	

* Please contact ANDREW Technical Support to learn more about this product.

ULTRA COMPACT MULTIBAND COMBINERS

Quadplexers

Package	Part Number	Description	DC Bypass				Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4		
Single	E14F15P19	Ultra Compact Single Quadplexer, 698–960/1800/2100/2300–2600 MHz	•				4.3–10 female	
Double	E14F15P17	Ultra Compact Twin Quadplexer, 698–960/1800/2100/2300–2600 MHz	•				4.3–10 female	
Single	E14F15P24	Ultra Compact Single Quadplexer, 1400–1800/2100/2300–2600/3500–3700 MHZ	•	•	•	•	4.3–10 female	
Double	E14F15P23	Ultra Compact Twin Quadplexer, 1400–1800/2100/2300–2600/3500–3700 MHZ	•	•	•	•	4.3–10 female	
Double	E14F15P31	Ultra Compact Twin Quadplexer, 1350–1880/1920–2170/2300–2400/2496–2700 MHz					4.3–10 female	
Quad	E14F15P32	Ultra Compact Quad Quadplexer, 1350–1880/1920–2170/2300–2400/2496–2700 MHz					4.3–10 female	
Double	E14F15P33	Ultra Compact Twin Quadplexer, 1350–2200/2300–2400/2496–2700/3300–4200 MHz					4.3–10 female	
Single	E14F15P34*	Single Quadplexer, 380–960/1400–1800/2100/2300–3800 MHz, DC Bypass Low	•				4.3–10 female	
Quad	E14F15P44	Ultra Compact Quad Quadplexer,617–960/1350–2200/23/26, DC bypass on all ports, 4.3-10 connectors	•	•	•	•	4.3–10 female	
Single	E14F15P47	Ultra Compact Single Quadplexer 612–960/1350–2200/2300–2400, 2496–2700/3300–4200 MHz, with 4.3-10 connectors,dc bypass on low band port	•				4.3–10 female	

* Please contact ANDREW Technical Support to learn more about this product.

PENTAPLEXERS

Product Summary

P/N	Frequency (MHz)					Connector Type (Female)	Modularity	DC/AISG Bypass	Note
E14F20P06	698-960	1425-1880	1920-2170	2300-2690	3500-3700	4.3-10	Single	All ports DC bypass	Ultra Compact
E14F20P05	698-960	1425-1880	1920-2170	2300-2690	3500-3700	4.3-10	Twin	All ports DC bypass	Ultra Compact
E14F20P09	698-960	1350-2200	2300-2400	2496-2700	3300-4200	4.3-10	Twin	Low ports DC bypass	Ultra Compact
E14F20P19	617-960	1350-2200	2300-2400	2496-2700	3300-4200	4.3-10	Penta	DC/AISG bypass	Ultra Compact

ULTRA COMPACT MULTIBAND COMBINERS

Pentaplexers

Package	Part Number	Description	DC Bypass					Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4	Band 5		
Single	E14F20P06	Ultra Compact Single Pentaplexer, 698–960/1400–1800/2100/ 2300–2600/3500–3700 MHz	•	•	•	•	•	4.3–10 female	
Single	E14F20P14	Ultra Compact Single Pentaplexer, 698-960/1400-1800/2100/ 2300-2600/3500-3700, DC low bypass	•					4.3–10 female	
Double	E14F20P05	Ultra Compact Twin Pentaplexer, 698–960/1400–1800/2100/ 2300–2600/3500–3700 MHz	•	•	•	•	•	4.3–10 female	
Double	E14F20P09	Ultra Compact Pentaplexer, 617– 960/1350–2200/2300–2400/ 2496–2700/3300–4200 MHz	•					4.3–10 female	
Quad	E14F20P19	Ultra Compact Quad Pentaplexer 617-960/1350-2200/2300-2400/ 2496-2700/3300-4200, DC/AISG bypass on all ports, with 4.3-10 connectors	•	•	•	•	•	4.3–10 female	

SAMEBAND COMBINERS

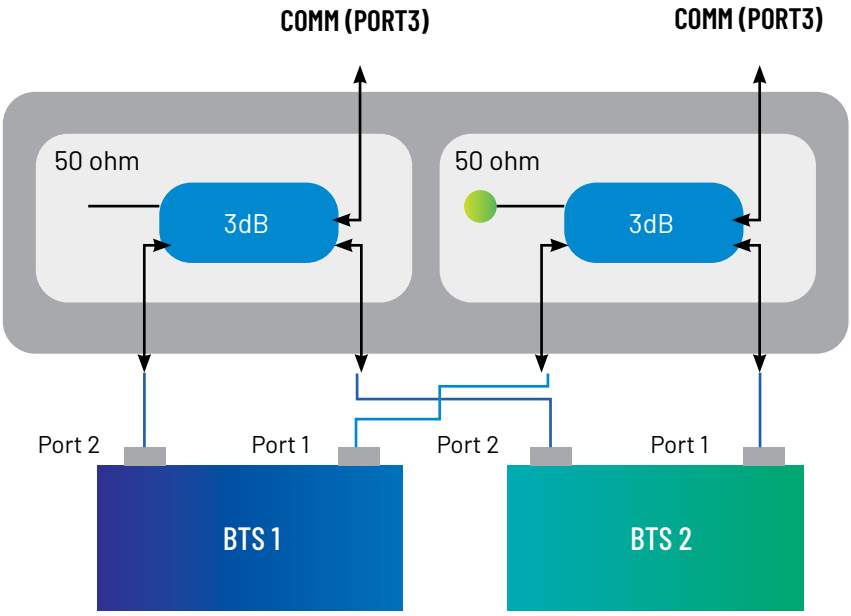
Rising demand for connectivity and capacity is driving network operators to modernize their existing sites with new technologies. With many rooftops overcrowded by antennas and towers overloaded however, operators often must settle for less desirable locations—sacrificing network performance and coverage.

ANDREW same-band combiners (SBCs) enable operators to modernize their existing sites while reducing the number of antennas required. With a wide portfolio of hybrid and low-loss combiners, ANDREW enables operators to address the challenges of network modernization with innovation and efficiency.

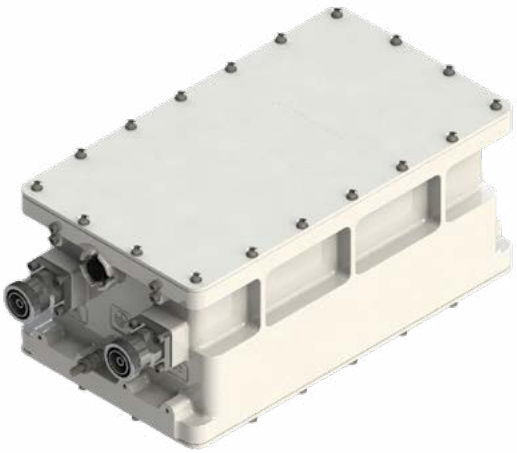
HYBRID COMBINER

The hybrid combiner is a directional coupler that equally combines or splits signals to/from two ports. ANDREW's hybrid combiners allow combining uplink and downlink signals within the same band—providing an economical and flexible solution.

- Full-band transmission on both ports
- More flexibility in terms of operating spectrum



SAMEBAND COMBINERS



LOW-LOSS COMBINERS

For higher-power, low-loss applications like macro cell sites, ANDREW same-band combiners couple the signals from separate ports onto a single output—while minimizing the insertion and power losses that result from introducing a passive unit in the RF path. These same-band combiners are designed to significantly minimize insertion loss compared to traditional hybrid combiners.

- Minimizes insertion loss while maximizing capacity
- Flexible design for site-sharing applications
- Rapid deployment and less equipment mean quicker ROI and lower CapEx

SAME BAND COMBINERS

Hybrid Combiners

698–2700 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	D15T01P31	Hybrid Combiner 2:1, 698–2700 MHz		•	7-16 DIN female	
	D15T01P37	Hybrid Combiner 2:1, 698–2700 MHz		•	4.3-10 female	
Double	D15T01P32	Twin Hybrid Combiner 2:1, 698–2700 MHz		•	7-16 DIN female	
	D15T01P38	Twin Hybrid Combiner 2:1, 698–2700 MHz		•	4.3-10 female	

3300–5925 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	D15T01P40	Twin Hybrid Combiner, 3300–5925 MHz		•	4.3-10 female	
Single	E14F11P26	Single Combiner, 555-2690/3300-5925/3300-4200 MHz, with 4.3-10 connectors			4.3-10 female	
Double	E14F11P14	Twin Combiner, 555-2690/3300-5925/3300-4200 MHz, with 4.3-10 connectors			4.3-10 female	

LOW LOSS COMBINERS

Product Summary

P/N	Product Description	Bands	Connector Type (Female)
E15Z55P02	LLC 900 MHz Type A DCALL (GB: 600KHz)	900	7-16 DIN-female
E15Z56P99	2S-'LLC 900 MHz Type A DCALL (GB: 600KHz) rack mount 19"	900	7-16 DIN-female
E15Z89P05	2S-LLC 900MHz Type B DCALL (GB: 10MHz)	900	7-16 DIN-female
E11F10P03	1S-LLC 18 B 15-10-20MHz DCSWITCH (DC=10MHz)	1800	7-16 DIN-female
E11F01P69	CS-LLC18 B 12-25.6-12MHz DCSWITCH (DC=10MHz)	1800	7-16 DIN-female
E11F01P70	CS-LLC18 B 12-25.6-12MHz DCSWITCH (DC=10MHz) rack mount 19"	1800	7-16 DIN-female
E15Z58P02	CS-LLC18 A 9.5-0.7-6.6MHz DCALL (GB=0.7MHz)	1800	7-16 DIN-female
E15Z50P71	CS-LLC 18 A 11.8-1.1-11.5 MHz DCALL (GB=1.1MHz)	1800	7-16 DIN-female
E15S09P39	1S-LLC 21 B 15-15-15MHz Dcauto (GB=15MHz)	2100	7-16 DIN-female
E15S09P36	2S-LLC 21 B 15-35-10MHz DCALL (GB=15MHz)	2100	7-16 DIN-female
E14Z00P30	Single Low Loss Combiner 3.4-3.61/3.62-3.8	3500	4.3-10 female
E14Z00P31	Twin Low Loss Combiner 3.4-3.61/3.62-3.8	3500	4.3-10 female
E14Z00P32	Quad Low Loss Combiner 3.4-3.61/3.62-3.8	3500	4.3-10 female

SAME BAND COMBINERS

Low-loss Combiners

900 MHz

Package	Part Number	Description	Bands			Insertion Loss (dB)	Min Guard Band (MHz)	Max Pass Band 1 (MHz)	Max Pass Band 2 (MHz)	No of Connectors BTS-ANT	Connector Type	Product Image
			900	1800	2100							
Double	E15Z55P02*	LLC 900 MHz Type A DC all bypass (GB: 600KHz)	•			0.5	0.6	15	15	2-1	7-16 DIN female	
Double	E15Z56P99*	2S-LLC 900 MHz Type A DC all bypass (GB: 600KHz) rack mount 19"	•			0.5	0.6	15	15	4-2	7-16 DIN female	
Double	E15Z89P05*	2S-LLC 900 MHz Type B DC all bypass (GB: 10 MHz)	•			0.5	10	15	15	2-4	7-16 DIN female	
Double	E15Z89P06*	2S-LLC 900 MHz Type B DC all bypass (GB: 10 MHz)	•			0.5	12.5	10	12.5	2-4	7-16 DIN female	

* Please contact ANDREW Technical Support to learn more about this product.

SAME BAND COMBINERS

Low-loss Combiners

1800 MHz

Package	Part Number	Description	Bands			Insertion Loss (dB)	Min Guard Band (MHz)	Max Pass Band 1 (MHz)	Max Pass Band 2 (MHz)	No of Connectors BTS-ANT	Connector Type	Product Image
			900	1800	2100							
Single	E11F10P03*	1S-LLC 18 B 15-10-20 MHz DC Switch (DC=10 MHz)		•		0.5	10	15	20	2-1	7-16 DIN female	
Double	E11F01P69*	CS-LLC18 B 12-25.6 -12 MHz DC Switch (DC=10MHz)		•		0.5	10	20	27	4-2	7-16 DIN female	
Double	E11F01P70*	CS-LLC18 B 12-25.6 -12MHz DC Switch (DC=10 MHz) rack mount 19"		•		0.5	10	20	27	4-2	7-16 DIN female	
Double	E15Z58P02*	CS-LLC18 A 9.5-0.7 -6.6 MHz DC all bypass (GB=0.7 MHz)		•		0.5	0.7	15	15	4-2	7-16 DIN female	
Double	E15Z50P71*	CS-LLC 18 A 11.8-1.1 -11.5 MHz DC all bypass (GB=1.1 MHz)		•		0.5	1.1	11.8	11.5	4-2	7-16 DIN female	

2100 MHz

Package	Part Number	Description	Bands			Insertion Loss (dB)	Min Guard Band (MHz)	Max Pass Band 1 (MHz)	Max Pass Band 2 (MHz)	No of Connectors BTS-ANT	Connector Type	Product Image
			900	1800	2100							
Single	E15S09P39*	1S-LLC 21 B 15-15-15 MHz DC smart bypass (GB=15 MHz)			•	0.5	15	15	15	2-1	7-16 DIN female	
Double	E15S09P36*	2S-LLC 21 B 15-35-10MHz DC all bypass (GB=15 MHz)			•	0.5	15	15	15	4-2	7-16 DIN female	

3500 MHz

Package	Part Number	Description	Bands				Insertion Loss (dB)	Min Guard Band (MHz)	Max Pass Band 1 (MHz)	Max Pass Band 2 (MHz)	No of Connectors BTS-ANT	Connector Type	Product Image
			900	1800	2100	3500							
Single	E14Z00P30*	Single Low Loss Combiner 3.4-3.61/ 3.62-3.8				•	0.3	10	200	200	2:1	4.3-10 female	
Double	E14Z00P31*	Twin Low Loss Combiner 3.4-3.61/3.62-3.8				•	0.3	10	200	200	4:2	4.3-10 female	
Quad	E14Z00P32*	Quad Low Loss Combiner 3.4-3.61/3.62-3.8				•	0.3	10	200	200	8:4	4.3-10 female	

* Please contact ANDREW Technical Support to learn more about this product.

TOWER MOUNTED AMPLIFIERS (TMAS)

TMAs customised to perform simply and flawlessly—regardless of OEM equipment

With global 5G deployments increasing, network operators need to squeeze more capacity and coverage from their macro sites. Tower-mounted amplifiers (TMAs) are a critical tool for boosting radio sensitivity and improving the uplink budget of ground-mounted radio equipment. But RAN deployments are growing more complex and diverse. Optimising performance for each site requires TMA solutions that are interoperable with all major radio OEMs and designed, customised and tested to meet the specific site needs.

ANDREW's family of TMAs delivers on four key requirements:

- Interoperability: ANDREW TMAs are designed, engineered, and tested to be OEM-independent, enabling you to deploy a best fit solution.
- Customisation: TMA customisation services optimise performance for your specific frequencies and can develop final products in as little as 12 weeks.
- Simplification: From a smaller footprint and optional integrated interference mitigation filter/combiner functionalities to remote upgrades and easier deployment, TMAs are designed to do more than amplify.
- Reliable performance: Extreme testing during production ensures every TMA meets our rigorous standards for RF and PIM performance, and environmental toughness.

With 500,000+ TMAs deployed globally in the past 10 years, and just a 0.1 percent return rate, ANDREW provides the customised performance, simplified deployment and guaranteed reliability today's high-demand wireless networks require.

TOWER MOUNTED AMPLIFIERS (TMAS)

The Strength in Our Numbers

Network complexity and user expectations are increasing. Now more than ever, MNOs rely on high-quality TMAs to meet the capacity and coverage requirements of their networks, including 5G. That means delivering on four key requirements:

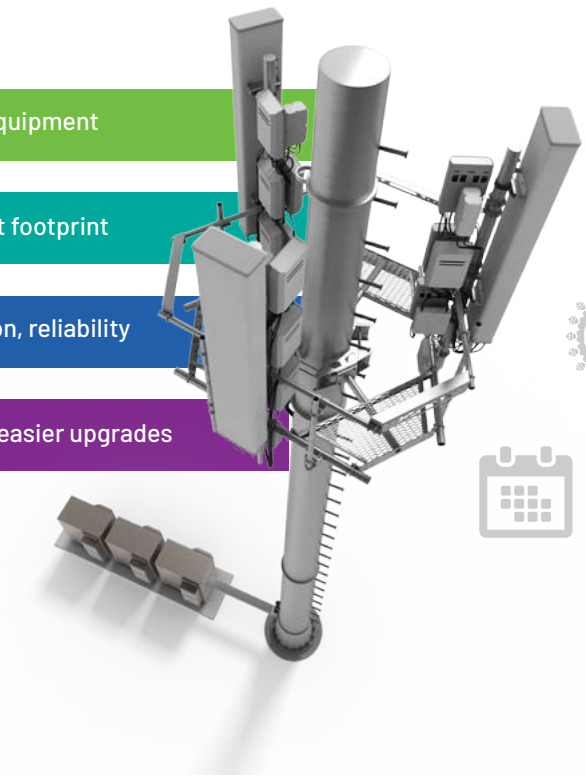
INTEROPERABILITY Works with any OEM's equipment

CUSTOMIZATION Best performance, smallest footprint

DOCUMENTED KPIs Throughput, PIM rejection, reliability

SIMPLIFIED DESIGN Fewer RF elements and easier upgrades

Your TMAs should be interoperable, customizable, and simple. Ours are.



+500K TMAs
deployed in 10 years
100% interoperable

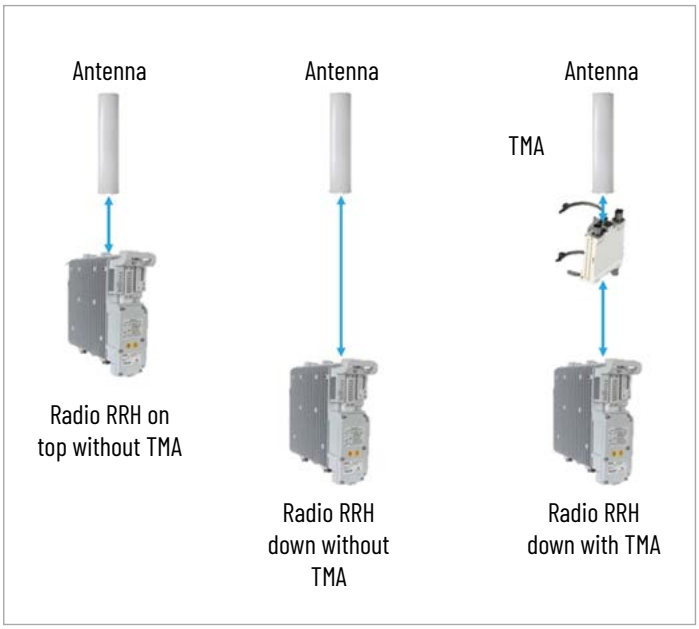
100s
of configurations
1 provider

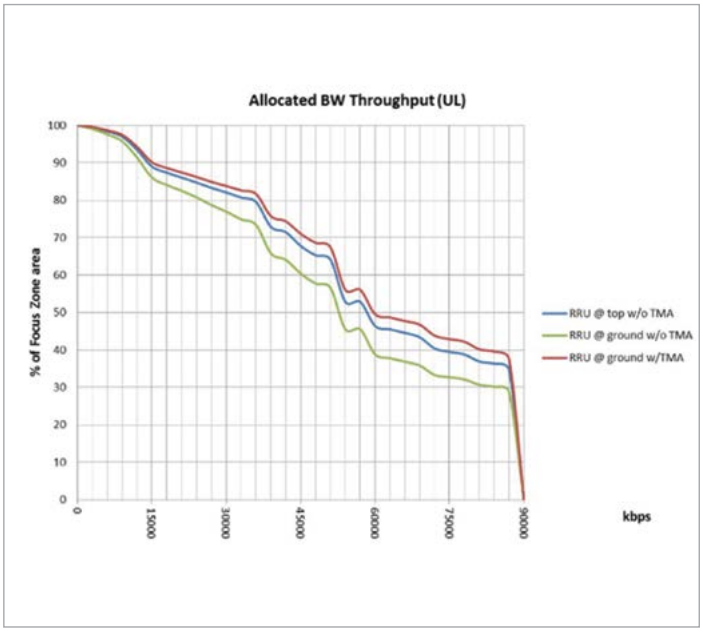
0.1%
return rate

30+
years as a TMA pioneer & innovator - global presence

80+
global customization engineers

≈12 weeks
sample simulation to design/produce customized TMA





SINGLE BAND TMA

Product Summary

P/N	Product Description	Frequency (MHz)	No. of Connectors BTS-ANT	No. of AISG Connectors	Connector Type (Female)
E14R00P46	TMA700	UL 703–733 MHz DL 758–788 MHz	2-2	1	4.3-10
E14R50P01	TMA800	UL 832–862 MHz DL 791–821 MHz	2-2	1	4.3-10
E16R01P97	TMA900	UL 880–915 MHz DL 925–960 MHz	2-2	1	4.3-10
E14R00P02	TMA1800	UL 1710–1880 MHz DL 1920–2170 MHz	2-2	1	4.3-10
E14R00P44	TMA1800 with 1400 MHz bypass	UL 1710–1880 MHz DL 1920–2170 MHz	2-2	1	4.3-10
E14R00P07	TMA2100	UL 1920–1980 MHz DL 2110–2170 MHz	2-2	1	4.3-10
E14R00P05	TMA2600 Rejection 45 dB @ 2700-3100 MHz	UL 2500-2570 MHz DL 2620-2690 MHz	2-2	1	4.3-10
E14R00P06	TMA2600	UL 2500-2570 MHz DL 2620-2690 MHz	2-2	1	4.3-10

TOWER MOUNTED AMPLIFIERS

Single Band

700 MHz

Package	Part Number	Description	No of Connectors BTS–ANT	No of AISG Connectors	Connector Type	Product Image
Double	E14R00P46	Single Band TMA, 700 MHz, F12dB 2:2 1AISG12	2–2	1	4.3–10 female	

800 MHz

Package	Part Number	Description	No of Connectors BTS–ANT	No of AISG Connectors	Connector Type	Product Image
Double	E14R50P01	Single Band TMA, 800 MHz F12dB 2:2 1AISG12	2–2	1	4.3–10 female	

TOWER MOUNTED AMPLIFIERS

Single Band

900 MHz

Package	Part Number	Description	No of Connectors BTS-ANT	No of AISG Connectors	Connector Type	Product Image
Double	E16R01P97	Single Band TMA, 900 MHz F12dB 2:2 1AISG 1>2	2–2	1	4.3–10 female	

1800 MHz

Package	Part Number	Description	No of Connectors BTS-ANT	No of AISG Connectors	Connector Type	Product Image
Double	E14R00P02	Single Band TMA, 1800 MHz F12dB 2:2 1AISG 1>2	2–2	1	7–16 DIN female	
Double	E14R00P44	Single Band TMA, 1800 MHz F12dB 2:2 1AISG12 bypass 1400 MHz	2–2	1	7–16 DIN female	

TOWER MOUNTED AMPLIFIERS

Single Band

2100 MHz

Package	Part Number	Description	No of Connectors BTS-ANT	No of AISG Connectors	Connector Type	Product Image
Double	E14R00P08	Single Band TMA, 2100 MHz F12dB 2:2 1AISG1>2N (****)	2–2	1	4.3–10 female	
Double	E14R00P07	Single Band TMA, 2100 MHz F12dB 2:2 1AISG1>2	2–2	1	4.3–10 female	

(****) CWA 250 mA

2600 MHz

Package	Part Number	Description	No of Connectors BTS-ANT	No of AISG Connectors	Connector Type	Product Image
Double	E14R00P05	Single Band TMA, 2600 MHz F12dB 2:2 1AISG 1>2 RJ27–31	2–2	1	4.3–10 female	
Double	E14R00P06	Single Band TMA, 2600 MHz F12dB 2:2 1AISG 1>2	2–2	1	4.3–10 female	

DUAL BAND TMA

Product Summary

P/N	Product Description	Frequency (MHz)	No. of Connectors BTS-ANT	No. of AISG Connectors	Connector Type (Female)
E14R00P47	TMA700/850	UL 703–748 MHz DL 758–803 MHz UL 824–845 MHz DL 859–890 MHz	2-4	1	4.3-10
E14R00P63	TMA700/850	UL 703–748 MHz DL 758–803 MHz UL 824–845 MHz DL 859–890 MHz	2-2	1	4.3-10
E14R50P02	TMA700/900	UL 703–748 MHz DL 746–756 MHz UL 898–915 MHz DL 943–960 MHz	2-2	1	4.3-10
E14R50P03	TMA700/900	UL 703–733 MHz DL 758–788 MHz UL 880–915 MHz DL 925–960 MHz	2-2	1	4.3-10
E14R50P11	TMA700/900	UL 703–733 MHz DL 758–788 MHz UL 880–915 MHz DL 925–960 MHz	2-4	1	4.3-10
E14R50P12	TMA700/900	UL 703–733 MHz DL 758–788 MHz UL 880–915 MHz DL 925–960 MHz	2-4	1	4.3-10
E14R00P49	TMA700/900	UL 703–748 MHz DL 758–803 MHz UL 890–915 MHz DL 935–960 MHz	2-2	1	4.3-10
E14R00P41	TMA700/800	UL 703–733 MHz DL 758–788 MHz UL 832–862 MHz DL 791–821 MHz	2-2	1	4.3-10
E14R00P42	TMA700/800	UL 703–733 MHz DL 758–788 MHz UL 832–862 MHz DL 791–821 MHz	2-2	1	4.3-10
E14R00P43	TMA700/800	UL 703–733 MHz DL 758–788 MHz UL 832–862 MHz DL 791–821 MHz	2-2	2	4.3-10
E14R00P50	TMA700/800	UL 718–723 MHz DL 773–778 MHz UL 832–842 MHz DL 791–801 MHz	4-2	1	4.3-10
E14R00P61	TMA700/800	UL 718–723 MHz DL 773–778 MHz UL 832–842 MHz DL 791–801 MHz	4-2	1	4.3-10

DUAL BAND TMA

Product Summary

P/N	Product Description	Frequency (MHz)	No. of Connectors BTS-ANT	No. of AISG Connectors	Connector Type (Female)
E16R30P00	TMA800/900	UL 832–862 MHz DL 791–821 MHz UL 880–915 MHz DL 925–960 MHz	2-2	1	4.3-10
E16R30P05	TMA800/900	UL 832–862 MHz DL 791–821 MHz UL 880–915 MHz DL 925–960 MHz	2-4	1	4.3-10
E16R30P02	TMA800/900	UL 832–862 MHz DL 791–821 MHz UL 880–915 MHz DL 925–960 MHz	2-2	1	4.3-10
E14R00P16	TMA800/900	UL 832–862 MHz DL 791–821 MHz UL 880–915 MHz DL 925–960 MHz	2-4	1	4.3-10
E14R00P58	TMA800/900 with bypass 700 MHz	UL 832–862 MHz DL 791–821 MHz UL 832–862 MHz DL 791–821 MHz	2-4	1	4.3-10
E14R00P59	TMA800/900 with bypass 700 MHz	UL 832–862 MHz DL 791–821 MHz UL 832–862 MHz DL 791–821 MHz	2-4	1	4.3-10

DUAL BAND TMA

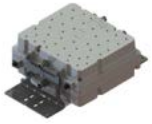
Product Summary

P/N	Product Description	Frequency (MHz)	No. of Connectors BTS-ANT	No. of AISG Connectors	Connector Type (Female)
E14R00P35	TMA1800/2100 with 1400 MHz bypass	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz	2-2	1	4.3-10
E14R00P54	TMA1800/2100	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz	2-2	1	4.3-10
E14R00P55	TMA1800/2100	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz	2-2	1	4.3-10
E14R00P56	TMA1800/2100	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz	2-4	1	4.3-10
E14R00P57	TMA1800/2100	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz	2-4	1	4.3-10
E14R00P30	TMA1800/2600	UL 1710–1785 MHz DL 1805–1880 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-2	1	4.3-10
E16S02P68	TMA1800/2600	UL 1710–1785 MHz DL 1805–1880 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-4	1	4.3-10
E16S02P69	TMA1800/2600	UL 1710–1785 MHz DL 1805–1880 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-4	1	4.3-10
E16S02P70	TMA1800/2600	UL 1710–1785 MHz DL 1805–1880 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-2	1	4.3-10
E16S02P65	TMA2100/2600	UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-2	1	4.3-10
E16S02P63	TMA2100/2600	UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-4	1	4.3-10
E16S02P64	TMA2100/2600	UL 1920–1980 MHz D L 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-4	1	4.3-10

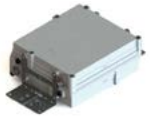
TOWER MOUNTED AMPLIFIERS

Dual Band

700/850 MHz

Package	Part Number	Description	No of Connectors BTS–ANT	No of AISG Connectors	No of Devices–Subunits	Connector Type	Product Image
Double	E14R00P47	Dual Band TMA, 700/850 MHz 2in:4out	2–4	1	2–2	4.3–10 female	
Double	E14R00P63	Dual Band TMA, 700/850 MHz F13dB 2:2 1AISG22	2–2	1	2–2	4.3–10 female	

700/900 MHz

Package	Part Number	Description	No of Connectors BTS–ANT	No of AISG Connectors	No of Devices–Subunits	Connector Type	Product Image
Double	E14R50P02	Dual Band TMA, 700/900 MHz F12dB 2:2 1AISG 1>2	2–2	1	1–2	4.3–10 female	
Double	E14R50P03	Dual Band TMA, 700/900 MHz F12dB 2:2, 1AISG 2>2	2–2	1	2–2	4.3–10 female	
Double	E14R50P11	Dual Band TMA, 700/900 MHz F12dB 2:4, 1AISG2>2	2–4	1	2–2	4.3–10 female	
Double	E14R50P12	Dual Band TMA, 700/900 MHz F12dB 2:4 1AISG1>2	2–4	1	1–2	4.3–10 female	
Double	E14R00P49	Dual Band TMA, 700/890–960 MHz F13 2:2, 1AISG12	2–2	1	1–2	4.3–10 female	

TOWER MOUNTED AMPLIFIERS

Dual Band

700/800 MHz

Package	Part Number	Description	No of Connectors BTS-ANT	No of AISG Connectors	No of Devices-Subunits	Connector Type	Product Image
Double	E14R00P41	Dual Band TMA, 700/800 MHz F12dB 2:2 1AISG12	2–2	1	1–2	4.3–10 female	
Double	E14R00P42	Dual Band TMA, 700/800 MHz F12dB 2:2 1AISG22	2–2	1	2–2	4.3–10 female	
Double	E14R00P43	Dual Band TMA, 700/800 MHz F12dB 2:2 2AISG12	2–2	2	1–2	4.3–10 female	
Double	E14R00P50	Dual Band TMA, 700/800 MHz F12DB 4:2, 1AISG22	4–2	1	2–2	4.3–10 female	
Double	E14R00P61	Dual Band TMA, 700/800 MHz F12DB 4:2, 1AISG12	4–2	1	1–2	4.3–10 female	

TOWER MOUNTED AMPLIFIERS

Dual Band

800/900 MHz

Package	Part Number	Description	No of Connectors BTS-ANT	No of AISG Connectors	No of Devices-Subunits	Connector Type	Product Image
Double	E16R30P00	Dual Band TMA, 800/900 MHz F12dB 2:2, 1AISG 2>2	2-2	1	2-2	4.3-10 female	
Double	E16R30P02	Dual Band TMA, 800/900 MHz F12dB 2:2, 1AISG 1>2	2-2	1	1-2	4.3-10 female	
Double	E16R30P05	CS-TMA, 800/900 MHz F12dB 2:4, 1AISG 2>2	2-4	1	2-2	4.3-10 female	
Double	E14R00P16	Dual Band TMA, 800/900 MHz F12dB 2:4, 1AISG 1>2	2-4	1	1-2	4.3-10 female	
Double	E14R00P58	Dual Band TMA, 800/900 MHz F12dB 2:4, 1AISG 1>2 BY07	2-4	1	1-2	4.3-10 female	
Double	E14R00P59	Dual Band TMA, 800/900 MHz F12dB 2:4, 1AISG 2>2 BY07	2-4	1	2-2	4.3-10 female	

TOWER MOUNTED AMPLIFIERS

Dual Band

1800/2100 MHz

Package	Part Number	Description	No of Connectors BTS-ANT	No of AISG Connectors	No of Devices-Subunits	Connector Type	Product Image
Double	E14R00P35*	Dual Band TMA 1800/2100 MHz F12dB 2:2, 1AISG 1>2 BY14	2-2	1	1-2	4.3-10 female	
Double	E14R00P36*	Dual Band TMA 1800/2100 MHz F12dB 2:2, 1AISG 1>2 BY14	2-2	1	2-2	4.3-10 female	
Double	E14R00P54*	Dual Band TMA 1800/2100 MHz F12dB 2:2, 1AISG 1>2	2-2	1	1-2	4.3-10 female	
Double	E14R00P55*	Dual Band TMA 1800/2100 MHz F12dB 2:2, 1AISG 2>2	2-2	1	2-2	4.3-10 female	
Double	E14R00P56*	Dual Band TMA 1800/2100 MHz F12dB 2:4, 1AISG 1>2	2-4	1	1-2	4.3-10 female	
Double	E14R00P57*	Dual Band TMA 1800/2100 MHz F12dB 2:4, 1AISG 2>2	2-4	1	2-2	4.3-10 female	
Double	E16S02P75*	Dual Band TMA, 1800/2100 MHz F12dB 2:4 1AISG 2>2N (****)	2-4	1	2-2	4.3-10 female	

(****) CWA 250 mA

* New Compact Family

TOWER MOUNTED AMPLIFIERS

Dual Band

1800/2600 MHz

Package	Part Number	Description	No of Connectors BTS-ANT	No of AISG Connectors	No of Devices-Subunits	Connector Type	Product Image
Double	E16S02P68	Dual Band TMA, 1800/2600 MHz F12dB 2:4 1AISG 1>2	2-4	1	1-2	4.3-10 female	
Double	E16S02P69	CS-TMA, 1800/2600 MHz F12dB 2:4 1AISG 2>2	2-4	1	2-2	4.3-10 female	
Double	E16S02P70	Dual Band TMA, 1800/2600 MHz F12dB 2:2 1AISG 1>2	2-2	1	1-2	4.3-10 female	
Double	E14R00P30	Dual Band TMA, 1800/2600 MHz F12dB, 2:2 1AISG 2>2	2-2	1	2-2	4.3-10 female	

TOWER MOUNTED AMPLIFIERS

Dual Band

2100/2600 MHz

Package	Part Number	Description	No of Connectors BTS–ANT	No of AISG Connectors	No of Devices–Subunits	Connector Type	Product Image
Double	E16S02P63	Dual Band TMA 2100/2600 MHz F12dB 2:4 1AISG 2>2	2–4	1	2–2	4.3–10 female	
Double	E16S02P64	Dual Band TMA 2100/2600 MHz F12dB 2:4 1AISG 1>2	2–4	1	1–2	4.3–10 female	
Double	E16S02P65	Dual Band TMA 2100/2600 MHz F12dB 2:2 1AISG 2>2	2–2	1	2–2	4.3–10 female	
Double	E14R00P15	Dual Band TMA 2100/2600 MHz F12dB 2:2 1AISG 1>2	2–2	1	2–2	4.3–10 female	

TRI BAND TMA

Product Summary

P/N	Product Description	Frequency (MHz)	No. of Connectors BTS-ANT	No. of AISG Connectors	Connector Type (Female)
E14R00P72	TMA 700/800/900 MHz	UL 723–733 MHz DL 778–788 MHz UL 811–821 MHz DL 852–862 MHz UL 890–905 MHz DL 935–950 MHz	2-2	1	4.3-10
E14R00P73	TMA 700/800/900 MHz	UL 723–733 MHz DL 778–788 MHz UL 811–821 MHz DL 852–862 MHz UL 890–905 MHz DL 935–950 MHz	2-2	1	4.3-10
E14R00P76	TMA 700/800/900 MHz	UL 703–733 MHz DL 758–778 MHz UL 791–821 MHz DL 832–862 MHz UL 880–915 MHz DL 925–960 MHz	2-2	1	4.3-10
E14R00P77	TMA 700/800/900 MHz	UL 703–733 MHz DL 758–778 MHz UL 791–821 MHz DL 832–862 MHz UL 880–915 MHz DL 925–960 MHz	2-2	1	4.3-10
E14R00P29	TMA1800/2100/2600 MHz	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-2	1	4.3-10
E16Z01P43	TMA1800/2100/2600 MHz	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	1-2	1	4.3-10
E16Z01P71	TMA1800/2100/2300 MHz TDD	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2300–2400 MHz DL 2300–2400 MHz	2-2	1	4.3-10

TRI BAND TMA

Product Summary

P/N	Product Description	Frequency (MHz)	No. of Connectors BTS-ANT	No. of AISG Connectors	Connector Type (Female)
E16Z01P85	TMA 1800/2100/2600 MHz 2in:4out Low Band Bypass	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-4	1	4.3-10 female
E16Z01P86	TMA 1800/2100/2600 MHz 2in:4out Low Band Bypass	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-4	1	4.3-10 female
E16Z01P87	TMA 1800/2100/2600 2in:6out Low Band Bypass	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-6	1	4.3-10 female
E16Z01P88	TMA 1800/2100/2600 2in:6out Low Band Bypass	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-6	1	4.3-10 female
E16Z01P89	TMA 1800/2100/2600 2in:8out Low Band Bypass	UL 1710–1785 MHz DL 1805–1880 MH UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-8	1	4.3-10 female
E16Z01P90	TMA 1800/2100/2600 2in:8out Low Band Bypass	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-8	1	4.3-10 female
E14R00P51	TMA 1800/2100/2600 2in:4out Low Band Bypass	UL 1710–1785 MH DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-4	2	4.3-10 female
E14R00P52	TMA 1800/2100/2600 2in:6out Low Band Bypass	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-6	2	4.3-10 female
E14R00P53	TMA 1800/2100/2600 2in:8out Low Band Bypass	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-8	2	4.3-10 female
E14R00P67	TMA 1800/2100/2600 4in:4out Low Band Bypass	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	4-4	1	4.3-10 female
E14R00P68	TMA 1800/2100/2600 4in:4out Low Band Bypass	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2500–2570 MHz DL 2620–2690 MHz	4-4	1	4.3-10 female

TOWER MOUNTED AMPLIFIERS

Tri Band

700/800/900 MHz

Package	Part Number	Description	No of Connectors BTS–ANT	No of AISG Connectors	No of Devices–Subunits	Connector Type	Product Image
Double	E14R00P72	Tri Band TMA 723-788/811-862/890-950 MHz F12dB 2:2 1AISG1>2	2-2	1	1-2	4.3–10 female	
Double	E14R00P73	Tri Band TMA 723-788/811-862/890-950 MHz F12dB 2:2 1AISG1>2	2-2	1	3-2	4.3–10 female	
Double	E14R00P76	Tri Band TMA 703-778/791-862/880-960 F12dB 2:2 1AISG12	2-2	1	1-2	4.3–10 female	
Double	E14R00P77	Tri Band TMA 703-778/791-862/880-960 F12dB 2:2 1AISG32	2-2	1	3-2	4.3–10 female	

1800/2100/2300 TDD MHz

Package	Part Number	Description	No of Connectors BTS–ANT	No of AISG Connectors	No of Devices–Subunits	Connector Type	Product Image
Double	E16Z01P71	Tri Band TMA 1800/2100/2300 MHz, FV12dB 2:2, 1AISG 3>2	2-2	1	3-2	4.3–10 female	

TOWER MOUNTED AMPLIFIERS

Tri Band

1800/2100/2600 MHz

Package	Part Number	Description	No of Connectors BTS-ANT	No of AISG Connectors	No of Devices-Subunits	Connector Type	Product Image
Double	E14R00P29	Tri Band TMA 1800/2100/2600 MHz, F12dB 2:2, 1AISG1>3	2-2	1	1-3	4.3-10 female	
Double	E16Z01P43	Tri Band TMA 1800/2100/2600 MHz, F12dB 2:2, 1AISG1>2	2-2	1	1-2	4.3-10 female	
Double	E16Z01P85	CS-TMA 1800/2100/2600 MHz, F12dB 2:4 1AISG1>2 BYWL14	2-4	1	1-2	4.3-10 female	
Double	E14R00P51	Tri Band TMA 1800/2100/2600 MHz, F12dB 2:4, 2AISG 1>2 BYWL14	2-4	2	1-2	4.3-10 female	
Double	E16Z01P87	CS-TMA 1800/2100/2600 MHz, F12dB 2:6 1AISG 1>2 BYWL14	2-6	1	1-2	4.3-10 female	
Double	E14R00P52	Tri Band TMA 1800/2100/2600 MHz, F12dB 2:6, 2AISG 1>2 BYWL14	2-6	2	1-2	4.3-10 female	
Double	E14R00P53	Tri Band TMA 1800/2100/2600 MHz, F12dB 2:8,2AISG 1>2 BYWL14	2-8	2	1-2	4.3-10 female	
Double	E16Z01P86	Tri Band TMA 1800/2100/2600 MHz, F12dB 2:4,1AISG 3>2 BYWL14	2-4	1	1-3	4.3-10 female	
Double	E16Z01P88	Tri Band TMA 1800/2100/2600 MHz, F12dB 2:,6 1AISG 3>2 BYWL14	2-6	1	1-3	4.3-10 female	
Double	E16Z01P89	Tri Band TMA 1800/2100/2600 MHz, F12dB 2:8 1AISG 1>2 BYWL14	2-8	1	1-2	4.3-10 female	
Double	E16Z01P90	Tri Band TMA 1800/2100/2600 MHz, F12dB 2:8, 1AISG 3>2 BYWL14	2-8	1	1-3	4.3-10 female	
Quad	E14R00P67	CS-TMA 1800/2100/2600 MHz, F12dB 4:4 1AISG 1>2 BYWL14	4-4	1	1-2	4.3-10 female	
Quad	E14R00P68	CS-TMA 1800/2100/2600 MHz, F12dB 4:4 1AISG 2>2 BYWL14	4-4	1	2-2	4.3-10 female	
Twin	E14R00P84	CS-TMA 18/21/26 F12 23/35 V6 2AISG42BYWL	4-4	1	2-2	4.3-10 female	

QUAD BAND TMA

Product Summary

P/N	Product Description	Frequency (MHz)	No. of Connectors BTS-ANT	No. of AISG Connectors	Connector Type (Female)
E16Z01P74	TMA1800/2100/2300/2600	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2300–2400 MHz DL 2300–2400 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-2	1	4.3-10
E16Z01P82	TMA1800/2100/2300/2600 with 694-960 bypass	UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz UL 2300–2400 MHz DL 2300–2400 MHz UL 2500–2570 MHz DL 2620–2690 MHz	2-4	1	4.3-10

TOWER MOUNTED AMPLIFIERS

Quad Band

1800/2100/2300 TDD/2600 MHz

Package	Part Number	Description	No of Connectors BTS-ANT	No of AISG Connectors	No of Devices-Subunits	Connector Type	Product Image
Double	E16Z01P74	Quad Band TMA 1800/2100/2300/2600 MHz, F12 2:2, 1AISG 4>2	2-2	1	4-2	4.3-10 female	
Double	E16Z01P82	Quad Band TMA 1800/2100/2300/2600 MHz with 694-960 MHz bypass F12 2:4, 1AISG 4>2 BYWL	2-4	1	4-2	4.3-10 female	

* Please contact ANDREW Technical Support to learn more about this product.

PENTA BAND TMA

Product Summary

Product Description	Frequency (MHz)	No. of Connectors BTS-ANT	No. of AISG Connectors	Connector Type (Female)
TMA700/850/900/1800/2100	UL 703–748 MHz DL 758–803 MHz UL 825–835 MHz DL 870–880 MHz UL 898–915 MHz DL 943–960 MHz UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz	2-4	1	4.3-10
TMA700/850/900/1800/2100	UL 703–748 MHz DL 758–803 MHz UL 825–835 MHz DL 870–880 MHz UL 898–915 MHz DL 943–960 MHz UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz	2-6	1	7/16
TMA700/850/900/1800/2100	UL 703–748 MHz DL 758–803 MHz UL 825–835 MHz DL 870–880 MHz UL 898–915 MHz DL 943–960 MHz UL 1710–1785 MHz DL 1805–1880 MHz UL 1920–1980 MHz DL 2110–2170 MHz	2-6	1	4.3-10

TOWER MOUNTED AMPLIFIERS

Penta Band

700/850/900/1800/2100 MHz

Package	Part Number	Description	No of Connectors BTS–ANT	No of AISG Connectors	No of Devices–Subunits	Connector Type	Product Image
Double	E16Z01P68	Penta Band TMA 700/850/900/1800/2100 MHz, F12 2:4, 1AISG 3>2	2–4	1	3–2	4.3–10 female	

INNOVATIVE FILTER SOLUTIONS

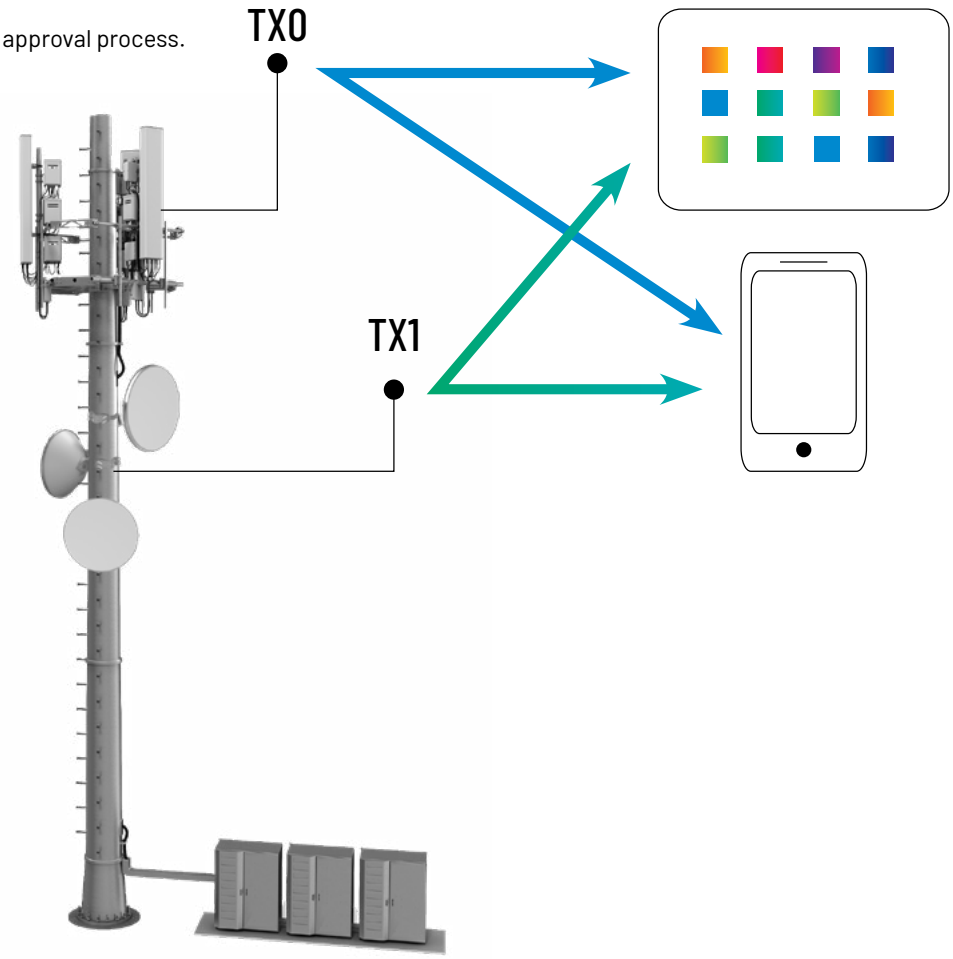
Operators are rushing to incorporate new spectrum into existing cell sites without adding a lot more equipment.
RF path filter solutions, like multiband combiners and tower mounted amplifiers, can address such concerns in general but, individually, each RF environment is unique.

So, ANDREW offers a broad portfolio of application-specific filter solutions that enable operators to expand their network capabilities while managing cost and space requirements.

MULTIBAND COMBINERS FOR 4T4R MIMO

ANDREW multiband combiners (MBCs) for 4T4R MIMO allow operators to leverage LTE's performance potential while reducing tower loads, RF complexity and interference. With a unique internal design, our portfolio of 4T4R MIMO MBCs enables operators to reduce insertion to 0.1– 0.3 dB and achieve excellent (–160 /–163 dBc) PIM performance.

- Antenna consolidation reduces the number of feeder cables and jumpers for lower CapEx.
- Reduced tower loading creates space for more revenue-generating equipment.
- Fewer antennas mean faster deployment and faster rollout of new services.
- Less tower clutter helps accelerate the zoning approval process.



MULTIBAND COMBINERS

Diplexers

1710–1880/1920–2170 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	E14F05P17	Twin Diplexer, 1800/2100 MHz, DC all bypass	•	•	4.3–10 female	

1710–2180/2300–2690 or 1710–2180/2500–2690 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Quad	E14F55P19	Ultra Compact Quad Diplexer, 1695–2200/2500–2690 MHz, DC Block			4.3–10 female	
	E14F05P83*	Quad Diplexer, 1695–2200/2300–2700 MHz, DC Block			4.3–10 female	
Double	E14F55P09	Ultra Compact Twin Diplexer, 1695–2200 /2300–2690 MHz, DC Block			4.3–10 female	
	E14F55P16	Ultra Compact Twin Diplexer, 1695–2200 /2500–2690 MHz, DC Block			4.3–10 female	
Quad	E14F55P17	Ultra Compact Quad Diplexer, 1695–2200/2300–2690 MHz, DC Block			4.3–10 female	
Quad	E14F06P72	Ultra Compact Quad Diplexer, 1350–2200/2300–2700MHz, DC low bypass	•		4.3–10 female	

612-960/1695-2700 /3300-4200 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E14F11P28	Quad Triplexer, 612-960/1695-2700 /3300-4200 MHz	•		4.3–10 female	

* Please contact ANDREW Technical Support to learn more about this product.

MULTIBAND COMBINERS

Triplexers

1710–1880/1920–2170/2300–2690 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E12F01P81	Twin Triplexer, 1800/2100/2300–2600 MHz, DC all bypass	•	•	•	4.3–10 female	
Double	E14F10P46	Twin Triplexer, 1800/2100/2300–2600 MHz				4.3–10 female	
Twin	E12F03P90	Ultra Compact Twin Triplexer, 18/21/23-26	DC block			4.3–10 female	
Quad	E14F07P01	Ultra Compact Quad Triplexer, 18/21/23-26	DC block			4.3–10 female	

MULTIBAND COMBINERS

Quadplexers

1710–1880/1920–2170/2300–2400/2500–2690 MHz

Package	Part Number	Description	DC Bypass				Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4		
	E16V90P56	Twin Quadplexer, 1800/2100/2300/2600 MHz, DC all bypass	•	•	•	•	4.3–10 female	

INNOVATIVE FILTER SOLUTIONS

MULTIBAND COMBINERS FOR 5G

ANDREW multiband combiners for 5G are specifically engineered and designed for use in 3.5 GHz and 5 GHz deployments. MIMO-ready, they allow operators to leverage LTE1800, LTE2100, LTE2300/2600 bands, as well as C-band and CBRS applications.

- Network modernization for upcoming 5G
- Integration of mobile 2G–4G with 5G and Wi-Fi
- 4.3-10 connectors reduce size while improving PIM performance
- New combining solution for 3.5 and 5.8 GHz
- Convertible mounting brackets

ANDREW 5G MBCs also support our multiport small cell antennas in the 1695–2690, 3400–3800 and 5150–5925 MHz bands—helping you achieve your network densification strategies.

1 Enhanced mobile broadband

UP TO **10** GBPS PER SUBSCRIBER

1–7 TYPICAL GBPS PER SUCSCRIBER

10–100X
CONNECTED DEVICES

MULTIBAND COMBINERS

Diplexers for 5G

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E14F06P06	Ultra Compact Single Diplexer, 80–2690/3300–5925 MHz	•		4.3–10 female	
Single	E14F06P88	Ultra Compact Single Diplexer, 80–2690MHz/3300–5925MHz, DC low bypass	•		4.3–10 female	
Double	E14F06P07	Ultra Compact Twin Diplexer, 80–2690/3300–5925 MHz	•		4.3–10 female	
Double	E14F06P86	Ultra Compact Twin Diplexer, 80–2690MHz/3300–5925MHz, DC low bypass	•		4.3–10 female	
Double	E14F06P80	Ultra Compact Quad Diplexer, 3300–3670/3700–3980 MHz, DC high bypass		•	4.3–10 female	
Quad	E14F06P08	Ultra Compact Quad Diplexer, 80–2690/3300–5925 MHz	•		4.3–10 female	
Octa	E14F06P00	Ultra Compact Octa Diplexer, 80–2690/3300–5925 MHz	•		4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Triplexers for 5G

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F60P01	Ultra Compact Twin Triplexer, 1695–2690/3400–3800/5150–5925 MHz	•			4.3–10 female	
Double	E14F60P02	Ultra Compact Quad Triplexer, 1695–2690/3400–3800/5150–5925 MHz	•			4.3–10 female	
Quad	E14F10P68	Ultra Compact Quad Triplexer, 380–2200/2300–2700/3300–4200 MHz	•			4.3–10 female	
Single	E14F10P94	Single Triplexer, 380-2200/2300-2690/3300-4200 MHz, DC Bypass Low	•			4.3–10 female	
Single	E14F10P95	Single Triplexer, 380-960/1400-1800/1920-3800 MHz, DC Bypass Low	•			4.3–10 female	
Double	E14F10P63	Ultra Compact Twin Triplexer, 617-960/1695-2700/3400-4200 MHz, DC low bypass	•			4.3–10 female	
Double	E14F10P64	Ultra Compact Quad Triplexer, 617-960/1695-2700/3400-4200 MHz, DC low bypass	•			4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Quadplexers for 5G

Package	Part Number	Description	DC Bypass				Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4		
Single	E14F15P24	Ultra Compact Single Quadplexer, 1400–1800/2100/2300–2600/ 3500–3700 MHz	•	•	•	•	4.3–10 female	
Double	E14F15P23	Ultra Compact Twin Quadplexer, 1400–1800/2100/2300–2600/ 3500–3700 MHz	•	•	•	•	4.3–10 female	
Double	E14F15P33	Ultra Compact Twin Quadplexer, 1350–2200/2300–2400/ 2496–2700/3300–4200 MHz					4.3–10 female	
Single	E14F15P34*	Single Quadplexer, 380-960/14-18/21/2300-3800 MHz DC Bypass Low					4.3–10 female	
Single	E14F15P47	Ultra Compact Single Quadplexer, 612-960/1350-2200/2300-2400, 2496-2700/3300-4200 MHz, with 4.3-10 connectors,dc bypass on low band port	•				4.3–10 female	

* Please contact ANDREW Technical Support to learn more about this product.

ULTRA COMPACT MULTIBAND COMBINERS

Pentaplexers for 5G

Package	Part Number	Description	DC Bypass					Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4	Band 5		
Single	E14F20P06	Ultra Compact Single Pentaplexer, 698–960/1400–1800/ 2100/2300–2600/3500–3700 MHz	•	•	•	•	•	4.3–10 female	
Single	E14F20P14	Ultra Compact Single Pentaplexer 698-960/1400-1800/2100/2300-2600/3500-3700, DC low bypass	•					4.3–10 female	
Double	E14F20P05	Ultra Compact Twin Pentaplexer, 698–960/1400–1800/2100/2300–2600/3500–3700 MHz	•	•	•	•	•	4.3–10 female	
Double	E14F20P09	Ultra Compact Twin Pentaplexer, 617–960/1350–2200/2300–2400/ 2496–2700/3300–4200 MHz	•					4.3–10 female	
Quad	E14F20P19	Ultra Compact Quad Pentaplexer, 617-960/1350-2200/2300-2400/2496-2700/3300-4200, DC/AISG bypass on all ports, with 4.3-10 connectors	•	•	•	•	•	4.3-10 female	

SAME BAND COMBINERS

Hybrid Combiners

3440–3520 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	D15T01P40	Twin Hybrid Combiner, 3300–5925 MHz		•	4.3–10 female	
Double	E14F11P14	Twin Combiner 555–2690/3300–5925/3300–4200 MHz, with 4.3–10 connectors				

INNOVATIVE FILTER SOLUTIONS

ULTRA-COMPACT MULTIBAND COMBINERS FOR SPACE-LIMITED APPLICATIONS

From small cell cabinets and metro concealment solutions to overcrowded macro sites, operators struggle to fit more equipment into smaller spaces. ANDREW ultra-compact multiband combiners help networks get more productivity from every cubic inch of available space. These innovative multiband combiners deliver high performance similar to ANDREW's standard size combiners with excellent PIM mitigation. Ultra-compact and lightweight, they also provide operators the flexibility to address overloading in cabinets, concealment solutions and on towers.

- Up to 60 percent smaller than traditional combiners
- Lighter weight for easier installations in tighter spaces
- Built for concealed small cell sites and DAS, indoor and outdoor
- Supports LTE bands and 5G migration
- 4.3-10 and Nex10 connectors provide excellent PIM performance

Winner for CCID 2020 Excellent Product Technology Solution Award

ULTRA COMPACT MULTIBAND COMBINERS

Diplexers

Package	Part Number	Description	DC Bypass					Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4	Band 5		
Double	E14F55P08	Ultra Compact Twin Diplexer, 380–960/1695–2690 MHz, DC low bypass	•					4.3–10 female	
Double	E14F55P09	Ultra Compact Twin Diplexer, 1695–2200/2300–2690 MHz, DC Block						4.3–10 female	
Quad	E14F55P17	Ultra Compact Quad Diplexer, 1695–2200/2300–2690 MHz, DC Block						4.3–10 female	
Double	E14F55P16	Ultra Compact Twin Diplexer, 1695–2200/2500–2690 MHz, DC Block						4.3–10 female	
Quad	E14F55P19	Ultra Compact Quad Diplexer, 1695–2200/2500–2690 MHz, DC Block						4.3–10 female	
Single	E14F06P05*	Ultra Compact Single Diplexer, 700–800/900 MHz, DC Block						4.3–10 female	
Double	E14F05P89	Ultra Compact Twin Diplexer, 700–800/900 MHz, DC Block						4.3–10 female	
Double	E12F03P46	Ultra Compact Twin Diplexer, 2300/2600 MHz, DC Block						4.3–10 female	

* Please contact ANDREW Technical Support to learn more about this product.

ULTRA COMPACT MULTIBAND COMBINERS

Diplexers

Package	Part Number	Description	DC Bypass					Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4	Band 5		
Octa	E14F06P04	Ultra Compact Octa Diplexer, 2300–2400/2570–2595 MHz						4.3-10 female (ANT side) Nex10 (BTS side)	
Quad	E12F03P47	Ultra Compact Quad Diplexer, 2300/2600 MHz, DC Block						4.3–10 female	
Single	E14F06P06	Ultra Compact Single Diplexer, 80– 2690/3300–5925 MHz, DC low bypass	•					4.3–10 female	
Single	E14F06P88	Ultra Compact Single Diplexer 80-2690MHz/3300-5925MHz, DC low bypass	•					4.3–10 female	
Double	E14F06P07	Ultra Compact Twin Diplexer, 80– 2690/3300–5925 MHz, DC low bypass	•					4.3–10 female	
Double	E14F06P86	Ultra Compact Twin Diplexer 80-2690MHz/3300-5925MHz, DC low bypass	•					4.3–10 female	
Quad	E14F06P08	Ultra Compact Quad Diplexer 80-2690/3300-5925 MHz	•					4.3–10 female	
Octa	E14F06P00	Ultra Compact Octa Diplexer 80-2690/3300-5925 MHz	•					4.3–10 female	
Double	E12F03P88	Ultra Compact Twin Diplexer 1710-1880/1920-2690 MHz DC Block						4.3–10 female	
Quad	E14F06P71	Ultra Compact Quad Diplexer, 1800/2100-2600, DC Block all ports						4.3–10 female	
Quad	E14F06P72	Ultra Compact Quad Diplexer 1350-2200/2300-2700MHz, DC low bypass	•					4.3–10 female	
Double	E14F06P80	Ultra Compact Quad Diplexer 3300-3670/3700-3980 MHz, DC high bypass		•				4.3–10 female	

* Please contact ANDREW Technical Support to learn more about this product.

ULTRA COMPACT MULTIBAND COMBINERS

Triplexers

Package	Part Number	Description	DC Bypass					Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4	Band 5		
Double	E14F60P01	Ultra Compact Twin Triplexer, 1695–2690/ 3400– 3800/5150–5925 MHz, DC low bypass	•					4.3–10 female	
Quad	E14F60P02	Ultra Compact Quad Triplexer, 1695–2690/3400–3800/5150–5925 MHz, DC low bypass	•					4.3–10 female	
Single	E14F10P54	Ultra Compact Single Triplexer, 1800/2100/2300–2600 MHz						4.3–10 female	
Double	E14F10P46	Ultra Compact Twin Triplexer, 1800/2001/2300–2600 MHz						4.3–10 female	
Double	E14F10P60	Ultra Compact Quad Triplexer, 1800/2100/2300–2600 MHz						4.3–10 female	
Twin	E12F03P90	Ultra Compact Twin Triplexer, 18/21/23-26	DC Block					4.3–10 female	
Quad	E14F07P01	Ultra Compact Quad Triplexer, 18/21/23-26	DC Block					4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Triplexers

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Single	E14F10P78	Ultra Compact Single Triplexer, 698–960/1350–1880/1920–2690 MHz, DC low bypass	•			4.3–10 female	
Double	E14F10P79	Ultra Compact Twin Triplexer, 698–960/1350–1880/1920–2690 MHz, DC low bypass	•			4.3–10 female	
Quad	E14F10P80	Ultra Compact Quad Triplexer, 698–960/1350–1880/1920–2690 MHz, DC low bypass	•			4.3–10 female	
Double	E14F10P68	Ultra Compact Twin Triplexer, 380–2200/2300–2700/3300–4200 MHz, DC low bypass	•			4.3–10 female	
Single	E14F10P94	Single Triplexer, 380–2200/2300–2690/3300–4200 MHz, DC low bypass	•			4.3–10 female	
Single	E14F10P95	Single Triplexer, 380–960/14–18/1920–3800 MHz, DC low bypass	•			4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Quadplexers

Package	Part Number	Description	DC Bypass					Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4	Band 5		
Single	E14F15P19	Ultra Compact Single Quadplexer, 698–960/1800/2100/2300–2600 MHz, DC low bypass	•					4.3–10 female	
Double	E14F15P17	Ultra Compact Twin Quadplexer, 698–960/1800/2100/2300–2600 MHz, DC low bypass	•					4.3–10 female	
Single	E14F15P24	Ultra Compact Single Quadplexer, 1400–1800/2100/2300–2600/ 3500–3700 MHz						4.3–10 female	
Double	E14F15P23	Ultra Compact Twin Quadplexer, 1400–1800/2100/2300–2600/ 3500–3700 MHz						4.3–10 female	
Double	E14F15P31	Ultra Compact Twin Quadplexer, 1400–1800/2100/2300/2600 MHz						4.3–10 female	
Quad	E14F15P32	Ultra Compact Quad Quadplexer, 1400–1800/2100/2300/2600 MHz						4.3–10 female	
Double	E14F15P33	Ultra Compact Twin Quadplexer, 1350–2200/2300–2400/ 2496–2700/3300–4200 MHz						4.3–10 female	
Single	E14F15P34*	Single Quadplexer, 380-960/14-18/21/2300-3800 MHz DC Bypass Low	•					4.3–10 female	
Quad	E14F15P44	Ultra Compact Quad Quadplexe,r 617-960/1350-2200/23/26, DC bypass on all ports, 4.3-10 connectors	•	•	•	•		4.3–10 female	
Single	E14F15P47	Ultra Compact Single Quadplexer, 612-960/1350-2200/2300-2400, 2496-2700/3300-4200 MHz, with 4.3-10 connectors, DC bypass on low band port	•					4.3–10 female	

* Please contact ANDREW Technical Support to learn more about this product.

ULTRA COMPACT MULTIBAND COMBINERS

Pentaplexers

Package	Part Number	Description	DC Bypass					Connector Type	Product Image
			Band 1	Band 2	Band 3	Band 4	Band 5		
Single	E14F20P06	Ultra Compact Single Pentaplexer, 698–960/1400–1800/2100/ 2300–2600/3500–3700 MHz, DC low bypass	•					4.3–10 female	
Single	E14F20P14	Ultra Compact Single Pentaplexer, 698–960/1400–1800/2100/ 2300–2600/3500–3700, DC low bypass	•					4.3–10 female	
Double	E14F20P05	Ultra Compact Twin Pentaplexer, 698–960/1400–1800/2100/ 2300–2600/3500–3700 MHz, DC low bypass	•					4.3–10 female	
Double	E14F20P09	Ultra Compact Pentaplexer, 617–960/1350–2200/ 2300–2400/2496–2700/ 3300–4200 MHz, DC low bypass	•					4.3–10 female	
Quad	E14F20P19	Ultra Compact Quad Pentaplexer, 617-960/1350-2200/2300-2400/ 2496-2700/3300-4200, DC/AISG bypass on all ports, with 4.3-10 connectors	•	•	•	•	•	4.3–10 female	

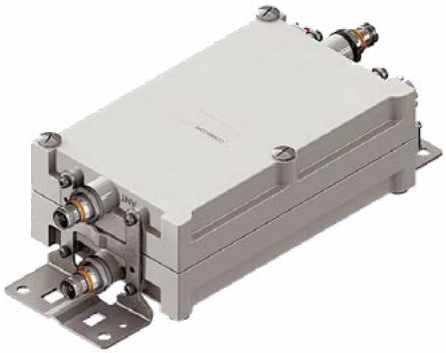
612-960/1695-2700 /3300-4200 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E14F11P28	Quad Triplexer, 612-960/1695-2700 /3300-4200 MHz	•		4.3–10 female	

INNOVATIVE FILTER SOLUTIONS

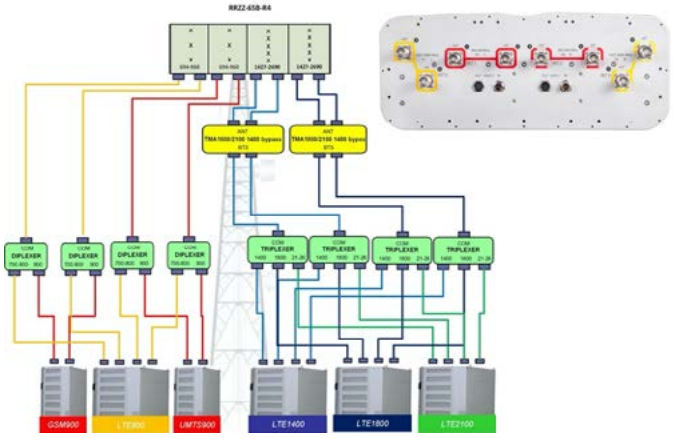
MULTIBAND COMBINERS FOR 1400 MHZ

ANDREW's 1400 MHz multiband diplexers, triplexers and ultra-wideband combiners support the broadest frequency band range available—helping you realize the full potential of the new L-band. Covering the 380–1400–2700 MHz bands and supporting 4T4R MIMO, these multiband combiners are designed specifically to address the challenges of adding LTE1400 to existing sites.



- New 4.3-10 connectors for improved PIM performance and size reduction
- DC/AISG smart bypass functionality
- Ultra-wideband options support up to two antenna arrays for 1427–2690 MHz applications
- Combine a supplemental 1400 MHz band and a primary band on one antenna

For applications using feeder cables, ANDREW's new miniaturized tower-mounted amplifiers with 1400 MHz bypass compensate for the added insertion loss to boost the uplink performance of your LTE1800 and LTE2100 bands. Together with our 1400 MHz multiband combiners, they create a total solution for your L-band deployment.



MULTIBAND COMBINERS

Diplexers

380–960/1425–2690 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Single	E14F05P57	Single Diplexer, 380–960/1425–2690 MHz, DC all bypass	•	•	4.3–10 female	
Twin	E14F05P58	Twin Diplexer, 380–960/1425–2690 MHz, DC all bypass	•	•	4.3–10 female	
	E14F05P59	Twin Diplexer, 380–960/1425–2690 MHz, DC smart bypass	DC smart bypass		4.3–10 female	

1350–1880/1920–2690 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	E14F06P38	Twin Diplexer, 1350–1880/1920–2690 MHz, DC all bypass	•	•	4.3–10 female	
Twin	E14F06P41YY	Twin Diplexer, 1350–1880/1920–2690 MHz DC auto	DC smart bypass		4.3–10 female	

MULTIBAND COMBINERS

Diplexers

1350–1525/1710–2690 MHz

Package	Part Number	Description	DC Bypass		Connector Type	Product Image
			Band 1	Band 2		
Double	E14F05P66	Twin Diplexer, 1350–1525/1710–2690 MHz, DC smart bypass	DC smart bypass		4.3–10 female	

MULTIBAND COMBINERS

Triplexers

380–960/1350–1880/1920–2690 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F10P89	Twin Triplexer, 380-960/1350-1880/1920-2690 MHz, DC smart bypass	DC smart bypass			4.3–10 female	
Double	E14F10P85	Twin Triplexer, 380-960/1350-1880/1920-2690 MHz, DC all bypass	•	•	•	4.3–10 female	

1350–1525/1800/2100–2300–2600 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F10P29	Twin Triplexer, 1350–1525/1800/2100– 2300–2600 MHz, DC smart bypass	DC smart bypass			4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Triplexers

698–960/1350–1880/1920–2690 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Single	E14F10P78	Ultra Compact Single Triplexer, 698–960/1350–1880/1920–2690 MHz, DC low bypass	•			4.3–10 female	
Double	E14F10P79	Ultra Compact Twin Triplexer, 698–960/1350–1880/1920–2690 MHz, DC low bypass	•			4.3–10 female	
Quad	E14F10P80	Ultra Compact Quad Triplexer, 698–960/1350–1880/1920–2690 MHz, DC low bypass	•			4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Quadplexers

1325–1880/1920–2170/2300–2400/2500–2690 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F15P31	Ultra Compact Twin Quadplexer, 1400–1800/2100/2300/2600 MHz				4.3–10 female	
Quad	E14F15P32	Ultra Compact Quad Quadplexer, 1400–1800/2100/2300/2600 MHz				4.3–10 female	

1350–2200/2300–2400/2496–2700/3300–4200 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F15P33	Ultra Compact Twin Quadplexer, 1350–2200/2300/2600/ 3300–4200 MHz				4.3–10 female	
Quad	E14F15P44	Ultra Compact Quad Quadplexer, 617-960/1350-2200/2300/2600 DC bypass on all ports, 4.3-10 connectors	•	•	•	4.3–10 female	
Single	E14F15P47	Ultra Compact Single Quadplexer, 612-960/1350-2200/2300-2400, 2496-2700/3300-4200 MHz, with 4.3-10 connectors, DC bypass on low band port	•			4.3–10 female	

ULTRA COMPACT MULTIBAND COMBINERS

Pentaplexers

617–960/1350–2200/2300/2600/3300–4200 MHz

Package	Part Number	Description	DC Bypass			Connector Type	Product Image
			Band 1	Band 2	Band 3		
Double	E14F20P09	Ultra Compact Twin Pentaplexer, 617–960/1350–2200/2300/ 2600/3300–4200 MHz				4.3–10 female	
Quad	E14F20P19	Ultra Compact Quad Pentaplexer 617-960/1350-2200/2300-2400/ 2496-2700/3300-4200, DC/AISG bypass on all ports, with 4.3-10 connectors	•	•	•	4.3–10 female	

TOWER MOUNTED AMPLIFIERS

Dual Band

1800/2100 MHz with 1400 MHz bypass

Package	Part Number	Description	No of Connectors BTS-ANT	No of AISG Connectors	No of Devices-Subunits	Connector Type	Product Image
Double	E14R00P35	CS-TMA, 1800/2100 MHz F12dB 2:2, 1AISG 1>2 bypass 1400 MHz	2-2	1	1-2	4.3-10 female	

INNOVATIVE FILTER SOLUTIONS

MULTIBAND COMBINERS FOR INDOOR DAS

ANDREW multiband combiners for indoor DAS provide operators an ultra-compact solution that combines multiple radio paths onto a single path. Available in many of the same configurations as our standard MBCs, these ultra-compact combiners offer similar performance in a smaller size. The innovative design results in a 50 percent weight reduction and significantly smaller footprint for easier installation in space-limited equipment closets and rooms.

- Smaller size with performance and configuration options similar to standard designs
- 4.3-10 connectors reduce size while improving PIM performance
- 50 percent weight reduction compared to similarly configured standard solutions

MULTIBAND COMBINERS FOR INDOOR DAS

Standards vs. Ultra Compacts

	Standard Variant				Ultra Compact Variant			
Package	Part Number	Description	Connector Type	Product Image	Part Number	Description	Connector Type	Product Image
Double	E15V95P34	Twin Diplexer 380–960/1695–2690 MHz DC all bypass	7-16 DIN female		E14F55P08	Ultra Compact Twin Diplexer 380–960/1695–2690 MHz DCL	4.3-10 female	
Double	E14F05P11	Twin Diplexer 380–960/1695–2690 MHz DC all bypass	4.3-10 female					
Double	E11F02P49	Twin Diplexer 1695–2180/2300–2690 MHz DC all bypass	7-16 DIN female		E14F55P09	Ultra Compact Twin Diplexer 1695–2200/2300–2690 MHz DC Block	4.3-10 female	
Double	E14F05P16	Twin Diplexer 1695–2180/2300–2690 MHz DC all bypass	4.3-10 female					
Single	E14F05P06	Single Diplexer 700–800/900 MHz DC all bypass	4.3-10 female		E14F06P05	Ultra Compact Single Diplexer 700–800/900 MHz DC Block	4.3-10 female	
Single	E14F06P32	Ultra Compact Single Diplexer, 1400–1800/2100–2600 MHz	4.3-10 female		E14F06P03	Ultra Compact Single Diplexer 1800/2100 MHz DC Block	4.3-10 female	
Single	E12F05P96	Single Diplexer 1800/2100 MHz DC all bypass	4.3-10 female					
Single	E12F05P92	Single Triplexer 800–900/1800/UMTS MHz DC all bypass	4.3-10 female		E14F10P59	Ultra Compact Single Triplexer 698–960/1800/2100/2300–2600 MHz	4.3-10 female	
Single	E12F01P80	Single Triplexer 1800/2100/2300–2600 MHz DC all bypass	4.3-10 female		E14F10P54	Ultra Compact Single Triplexer 1800/2100/2300–2600 MHz	4.3-10 female	
Single	E14F15P13	Quadplexer 698–960/1800/2100/2300–2600 MHz DC all bypass	4.3-10 female		E14F15P19	Ultra Compact Single Quadplexer 698–960/1800/2100/2300–2600 MHz	4.3-10 female	

Since 1937, ANDREW, an Amphenol company, has driven the evolution of wireless technology. Trusted by mobile network operators and enterprises globally, we work closely with our customers to deliver innovative solutions that enhance connectivity experiences both outdoors and indoors. Our dedicated global team is committed to advancing the industry, fueled by the vision that a better-connected future is possible.

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