

## FEATURES

- Expanded forward path bandwidth to 1.2 GHz
- Diplexer-less to allow expanded return bandwidth
- Pre-configured with 0 dB, 8 dB, or 12 dB of equalization
- Housing compatibility with all CommScope FFE and SSP line passive products

The CommScope Full Band Forward Feederline Equalizer is now available to assist operators as they evolve their networks with expanded upstream bandwidth.

The Full Band FFE has no Diplex Filters that are frequency band dependent, so that once the FFE is installed it can support upstream bandwidth migrations from 42 MHz to 85 MHz and 204 MHz without the need to revisit the FFE location and change the faceplate.

This 1.2 GHz FFE is backward compatible with the previous version of Feederline Equalizers and uses the same housing as the SSP series of splitters, directional couplers, and power inserters.

The Full Band FFE is designed without plug-in equalizers; instead, the Faceplate contains a fixed circuit with either 0-dB, 8-dB, or 12-dB equalization. This ensures that the faceplate label always accurately reflects the correct equalizer value.

The Full Band FFE has no dedicated upstream path; therefore, there are no plug-in locations for attenuators.

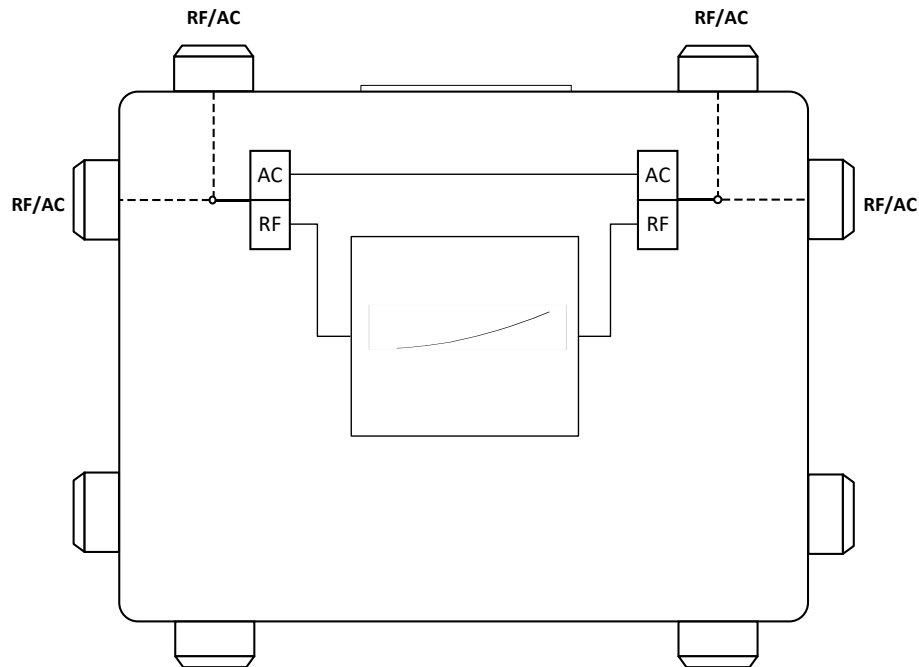


## SPECIFICATIONS

Characteristics	Specification		
	FFE-0-120-FB	FFE-8-120-FB	FFE-12-120-FB
<b>Passband</b>			
Full Band	5–1218 MHz	5–1218 MHz	5–1218 MHz
<b>Insertion Loss, Forward Path dB</b>	Max	Tolerance $\pm 0.75$ dB	Tolerance $\pm 0.75$ dB
5 MHz	-0.3	-8.1	-12.2
42 MHz	-0.3	-7.8	-11.7
54 MHz	-0.3	-7.7	-11.5
85 MHz	-0.3	-7.6	-11.2
102 MHz	-0.3	-7.6	-11.1
111 MHz	-0.3	-7.5	-11.0
204 MHz	-0.3	-7.0	-9.7
258 MHz	-0.3	-6.8	-9.2
372 MHz	-0.3	-6.3	-8.3
492 MHz	-0.3	-5.4	-7.0
550 MHz	-0.3	-5.1	-6.5
606 MHz	-0.3	-4.8	-6.1
750 MHz	-0.4	-3.9	-5.0
834 MHz	-0.4	-3.5	-4.4
870 MHz	-0.4	-3.4	-4.1
1002 MHz	-0.5	-2.9	-3.3
1119 MHz	-0.6	-2.2	-2.5
1218 MHz	-0.6	-2.0	-2.0
Forward Flatness	$\pm 0.5$ dB	$\pm 0.5$ dB	$\pm 0.5$ dB
<b>Maximum Return Loss, All Ports dB</b>			
5–9 MHz	14.5 dB	14.5 dB	14.5 dB
10–1218 MHz	15 dB	15 dB	15 dB
<b>Hum Modulation: Passive @ 12 A Current</b>			
5–10 MHz	-40 dBc	-40 dBc	-40 dBc
10–15 MHz	-50 dBc	-50 dBc	-50 dBc
15–1000 MHz	-60 dBc	-60 dBc	-60 dBc
1000–1218 MHz	-55 dBc	-55 dBc	-55 dBc
<b>Group Delay, nS</b>			
5 to 8 MHz per 1 MHz span	20	20	20
8 to 15 MHz per 1 MHz span	4	4	4
15 to 210 MHz per 1 MHz span	2	2	2
210 to 1218 MHz per 6 MHz span	2	2	2
<b>Power Requirements</b>			
Maximum Current	12 A, continuous	12 A, continuous	12 A, continuous
<b>Shielding Effectiveness, dB</b>			
5 to 1218 MHz	105	105	105
<b>Operating Temperature Range</b>			
	-40° to +60°C	-40° to +60°C	-40° to +60°C

## ORDERING INFORMATION

Part Number	Model Name	Description
1514527-001	FFE-0-120-FB	1.2 GHz Feederline Equalizer, Full Band, 0 dB Fixed, Standard Pack Qty 6
1514527-002	FFE-8-120-FB	1.2 GHz Feederline Equalizer, Full Band, 8 dB Fixed, Standard Pack Qty 6
1514527-003	FFE-12-120-FB	1.2 GHz Feederline Equalizer, Full Band, 12 dB Fixed, Standard Pack Qty 6



## RELATED PRODUCTS

FFT-*-Q Taps	MB120 Amplifier
SSP-*-Q Passives	Optical Nodes
BLE120 Line Extenders	Installation Services

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

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**Note:** Specifications are subject to change without notice.

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1514531\_FFE-\*-120-FB Full Band Forward Equalizer\_RevB