Features and Benefits

ANTRONIX®

Full Bandwidth Line Equalizer Series-1.2 GHz

LEQ-FBWx-120/U

The LEQ-FBW is a full bandwidth equalizer allowing full forward and return cable equalization. The LEQ-FBW equalizes the full 5 MHz to 1218 MHz bandwidth to compensate for negative signal tilt usually occurring at the end of the distribution system. Also, the signal to noise/ingress ratio is improved by adding attenuation into the return path.

The LEQ-FBW is independent of forward and return frequency splits since no diplex filter is involved. Antronix has designed the LEQ-FBW to withstand the most severe environmental conditions via its four-stage corrosion protection process. Additionally, the LEQ-FBW can withstand 6kV combination wave surge per IEEE C62.41 Category B3 on its input and output ports. The patented USP bypass switch provides uninterrupted signal and power during faceplate changes.

- **Expanded Bandwidth Line Equalizer**
  - 5 MHz to 1218 MHz
- **No Internal Diplexers**
- **Forward Path Tilt Compensation**
- **Return Path Optimization**
- **Four Stage Corrosion Protection Process**
- **A 360 Aluminum Alloy Housing**
  - Housing is impregnated with a sealer to prevent porosity
- **Clear chromate coating inside and out**
  - Double baled on coating of polyurethane for superior protection
- **6 kV Combination Surge Withstand on Input/Output Ports**
  Surge withstand per IEEE C62.41 Category B3.
- **Patented USP Bypass Switch**
  - Provides uninterrupted signal and power during faceplate changes
- **12 Amperes of Power Passing Capability**
  12 A @ 90 VAC
- **2 Models**
  LEQ-FBW8-120/U Line Equalizer, Full Band, 8 dB, 5-1218 MHz, AC/RF bypass
  LEQ-FBW12-120/U Line Equalizer, Full Band, 12 dB, 5-1218 MHz, AC/RF bypass

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Electrical Specifications
LEQ-FBWx-120/U

Model#		LEQ-FBW8-120/U 8 dB Equalizer	LEQ-FBW12-120/U 12 dB Equalizer
Insertion Loss (dB Max)	**Freq** (MHz)		
	5	-8.1 ± 0.5	-12.3 ± 0.5
	10	-8.0 ± 0.5	-12.3 ± 0.5
	50	-7.8 ± 0.5	-11.9 ± 0.5
	85	-7.6 ± 0.5	-11.6 ± 0.5
	102	-7.5 ± 0.5	-11.4 ± 0.5
	204	-7.0 ± 0.5	-10.5 ± 0.5
	258	-6.8 ± 0.5	-10.0 ± 0.5
	396	-6.1 ± 0.5	-8.8 ± 0.5
	450	-5.8 ± 0.5	-8.4 ± 0.5
	684	-4.6 ± 0.5	-6.3 ± 0.5
	750	-4.2 ± 0.5	-5.6 ± 0.5
	870	-3.7 ± 0.5	-4.5 ± 0.5
	1003	-3.1 ± 0.5	-3.4 ± 0.5
	1218	-2.0 ± 0.5	-1.9 ± 0.5
Return Loss (dB Min)	5-10	9	9
	10-1218	15	15
Hum Modulation (dBc Min)	5 - 1218	-55	-55

General	
Operating Temperature	-40°C to +60°C
Power Passing	12 amps @ 90 VAC
Pressure Seal	15 psi
Surge Withstand	6 kV combination wave surge (IEEE 62.41-1991 Cat. B3) 6 kV ring wave surge (IEEE 62.41-1991 Cat. A3)

Model #	Description
LEQ-FBW8-120/U	8 dB Full Bandwidth Line Equalizer, 1.2 GHz
LEQ-FBW12-120/U	12 dB Full Bandwidth Line Equalizer, 1.2 GHz

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