

P4460E-3 Duplexer, bandpass, trunking, low-loss, 896-940 MHz

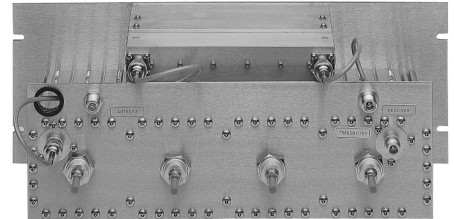
- Low loss aperture coupled Res-Lok™ 4 cavity filter on transmit
- 5 Section high selectivity combline filter on receive
- Ideal for trunking or cellular system previously using 2 or more antennas
- 400 Watt power handling capability.

The P4460E combines the low loss of a Res-Lok™ aperture-coupled filters on transmit side, with the high selectivity of a combline filter on receive, making it the ideal choice for single antenna operation of trunking base stations. The Res-Lok™ 4-cavity bandpass section has typically 1 dB insertion loss and provides 80 dB of noise suppression, which, when added to the typically 35-40 dB noise suppression provided by most cavity ferrite transmitter combiners, results in nearly 100+ dB noise suppression overall. The 5-pole combline filter on the receive side provides over 80 dB carrier suppression, a figure that is more than adequate for most system applications. In addition, both the transmit and receive bandpass windows are a full 5 MHz wide, a fact which allows sparing of this component on a multi-site basis without the need to have facilities for retuning.

Bandpass duplexers are more suitable for extremely congested areas to relieve intermodulation from high-level mixing in receiver front ends, and to reduce transmitter spurious and overall extraneous radiation.

These duplexers are easily field-tunable. Because of carefully designed temperature compensation, frequency drift over the operating temperature range is extremely small, typically 0.5 ppm/°C.

This duplexer is the ideal choice when it becomes necessary to duplex a trunking or cellular station previously using two or more antennas.



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Electrical Specifications

Frequency Range	MHz	896 to 940	
Tx Frequency Range	MHz	935 to 940	
Number of Cavities - Tx Side		4	
Number of Cavities - Rx Side		5	
Rx Frequency Range	MHz	896 to 901	
Input VSWR (max)		1.5:1	
Impedance	Ω	50	
Isolation - Tx noise suppression at Rx (min)	dB	80	
Isolation - Rx carrier suppression at Tx (min)	dB	80	
Average Power Input (max)	W	400	
Input Connectors		N-Female	
Output Connectors		N-Female	
Insertion loss (typ) Rx to Ant	dB	1.5	*1
Insertion loss (max) Rx to Ant	dB	1.8	
Insertion loss (typ) Tx to Ant	dB	1	*2
Insertion loss (max) Tx to Ant	dB	1.3	
Pass bandwidth	MHz	5	

Notes

*1 : 5 MHz BW

*2 : 5 MHz BW

Mechanical Specifications

Width	in (mm)	19 (483)
Depth	in (mm)	8.25 (210)
Length/ Height	in (mm)	7 (178)
Finish		chromate conversion
Weight	lbs (kg)	15 (6.81)
Actual shipping weight	lbs (kg)	20 (9.08)
Shipping dimensions	in (mm)	22x10x13 (559x254x330)
Mounting configurations		19 inch rack

Environmental Specifications

Temperature range	°F (°C)	-22 to +140 (-30 to +60)
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