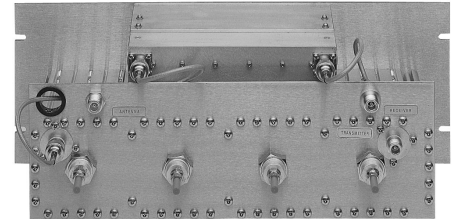


**P4460E-1** Duplexer, bandpass, trunking, low-loss, 806-869 MHz

Also referred as: P4460E\*1

- Low loss aperture coupled Res-Lok™ 4 cavity filter on transmit
- 6 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 0.5 dB insertion loss and provides 50 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 90 dB noise suppression overall. The 6-pole combline filter on the receive side provides over 85 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 15 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
<b>Telephone</b>	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

#### Electrical Specifications

Frequency Range	MHz	806 to 869	
Tx Frequency Range	MHz	851 to 866	
Number of Cavities - Tx Side		4	
Number of Cavities - Rx Side		6	
Rx Frequency Range	MHz	806 to 821	
Input VSWR (max)		1.5:1	
Impedance	Ω	50	
Isolation - Tx noise suppression at Rx (min)	dB	50	
Isolation - Rx carrier suppression at Tx (min)	dB	85	
Average Power Input (max)	W	400	
Input Connectors		N-Female	
Output Connectors		N-Female	
Insertion loss (typ) Rx to Ant	dB	1.2	*1
Insertion loss (max) Rx to Ant	dB	1.5	
Insertion loss (typ) Tx to Ant	dB	0.5	*2
Insertion loss (max) Tx to Ant	dB	0.7	
Pass bandwidth	MHz	15	

#### Notes

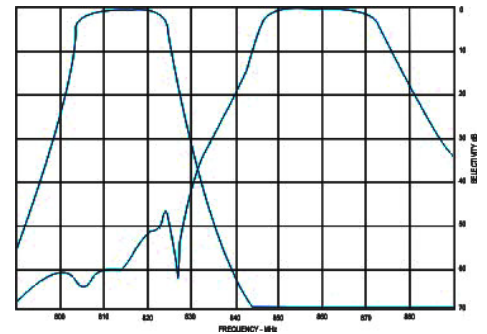
- \*1 : 15 MHz BW
- \*2 : 15 MHz BW

#### 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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