



C-Band Radar Elimination Filters

13961 Series

The Model 13961 is a lightweight, aluminum C-band bandpass filter – ideal for multifeed applications requiring side-by-side placement of filters.

The unit virtually eliminates interference caused by navigational communications (radar) of commercial and military aircraft, as well as coastal and marine vessels operating at frequencies above and below the C-band. Since this filter operates at the C-band frequencies, LNB saturation from these strong out-of-band signals is avoided.



Model 13961

Specifications:

Passband:	3.7 - 4.2 GHz
Insertion Loss:	0.5 dB Typ at Fo 0.75 dB roll off at band edge
VSWR:	1.5:1 Typ
Group Delay:	Less than 8 ns Typ
Rejection:	
25 dB Typ	3.65/4.25 GHz
60 dB Min	3.55/4.35 GHz
70 dB Min	3.50/4.40 GHz
Transmit Band Rejection:	
70 dB Typ	5.8 - 6.5 GHz

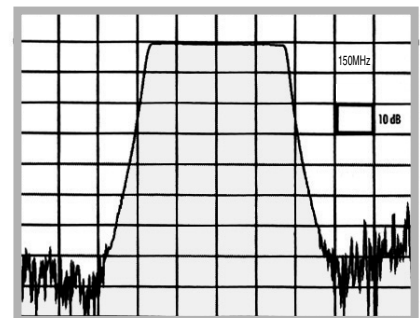
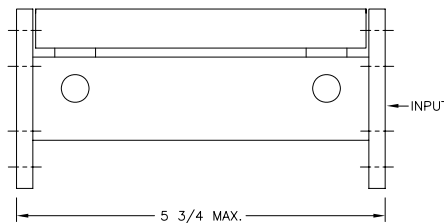
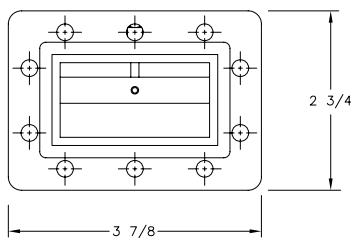
Mechanical Specifications:

Dimensions	5 3/4" L x 2 3/4" H x 3 7/8" D
Weight:	1.3 lbs.
Flanges*:	CPR229G (Input) CPR229F (Output)

* Half gasket is supplied with each model

Features:

- Quick Delivery
- Lightweight, Low Profile
- Ideal for Digital Applications (Low Differential Group Delay)
- Low Insertion Loss
- High Interference Rejection
- Other Frequency Bands Available Upon Request (Including International)
- Also rejects transmit band (5.8 - 6.5 GHz) - eliminating the need for a separate transmit reject filter



Typical Response Curve of 13961

13961 Series - Aluminum Models

Model Number	Receive Band (MHz)	Insertion Loss (Center Band)	Passband Edge Roll-off	VSWR	Rejection
13961-3400/4200	3400 - 4200	0.3 dB	0.3 dB	1.50:1	30 dB @ 3300 / 4300 MHz 50 dB @ 4400 MHz 60 dB @ 4500 MHz
13961WE-3550/4150 13961W-3550/4150	3550 - 4150	0.3 dB (WE) 0.5 dB (W)	0.3 dB (WE) 0.5 dB (W)	1.44:1	45 dB @ 3500 / 4200 MHz 55 dB @ 3400 / 4300 MHz 70 dB @ 3350 / 4350 MHz
13961WE-3578/4178 13961W-3578/4178	3578 - 4178	0.3 dB (WE) 0.5 dB (W)	0.3 dB (WE) 0.5 dB (W)	1.44:1	45 dB @ 3528 / 4228 MHz 55 dB @ 3428 / 4328 MHz 70 dB @ 3378 / 4378 MHz
13961WE-I 13961W-I	3600 - 4200	0.3 dB (WE) 0.5 dB (W)	0.3 dB (WE) 0.5 dB (W)	1.44:1	45 dB @ 3550 / 4250 MHz 55 dB @ 3450 / 4350 MHz 70 dB @ 3400 / 4400 MHz
13961WE-3625/4200 13961W -3625/4200	3625 - 4200	0.3 dB (WE) 0.5 dB (W)	0.3 dB (WE) 0.5 dB (W)	1.44:1	45 dB @ 3575 / 4275 MHz 55 dB @ 3475 / 4375 MHz 70 dB @ 3425 / 4425 MHz
13961WE-3660/4200 13961W-3660/4200	3660 - 4200	0.3 dB (WE) 0.5 dB (W)	0.3 dB (WE) 0.5 dB (W)	1.44:1	30 dB @ 3610 / 4250 MHz 50 dB @ 3500 / 4365 MHz 70 dB @ 3450 / 4435 MHz
13961WE-3665/4165 13961W-3665/4165	3665 - 4165	0.3 dB (WE) 0.5 dB (W)	0.3 dB (WE) 0.5 dB (W)	1.44:1	45 dB @ 3615 / 4215 MHz 60 dB @ 3515 / 4315 MHz 70 dB @ 3465 / 4365 MHz
13961WE-3680/4180 13961W-3680/4180	3680 - 4180	0.3 dB (WE) 0.5 dB (W)	0.3 dB (WE) 0.5 dB (W)	1.44:1	45 dB @ 3630 / 4230 MHz 60 dB @ 3530 / 4330 MHz 70 dB @ 3480 / 4380 MHz
13961WE 13961W	3700 - 4200	0.3 dB (WE) 0.5 dB (W)	0.3 dB (WE) 0.5 dB (W)	1.44:1	45 dB @ 3650 / 4250 MHz 60 dB @ 3550 / 4350 MHz 70 dB @ 3500 / 4400 MHz
13961WE-3735/4200 13961W-3735/4200	3735 - 4200	0.3 dB (WE) 0.5 dB (W)	0.3 dB (WE) 0.5 dB (W)	1.44:1	45 dB @ 3685 / 4285 MHz 60 dB @ 3585 / 4400 MHz

					70 dB @ 3535 / 4450 MHz
13961WE-3760/4200 13961W-3760/4200	3760 - 4200	0.3 dB (WE) 0.5 dB (W)	0.3 dB (WE) 0.5 dB (W)	1.44:1	45 dB @ 3710 / 4320 MHz 60 dB @ 3610 / 4430 MHz 70 dB @ 3570 / 4470 MHz
13961WE-3780/4200 13961W-3780/4200	3780 - 4200	0.3 dB (WE) 0.5 dB (W)	0.3 dB (WE) 0.5 dB (W)	1.44:1	25 dB @ 3730 / 4300 MHz 50 dB @ 3640 / 4390 MHz 70 dB @ 3570 / 4470 MHz