

70 MHZ IF FILTER FOR VIDEO UP/DOWNLINK



FEATURES

- HIGH SELECTIVITY
- CONSTANT DELAY
- FLAT PASSBAND AMPLITUDE
- LOW PASSBAND VSWR
- PC MOUNTABLE SMALL SIZE
- FREQUENCY RANGE 100 KHZ - 3000MHZ

DESCRIPTION

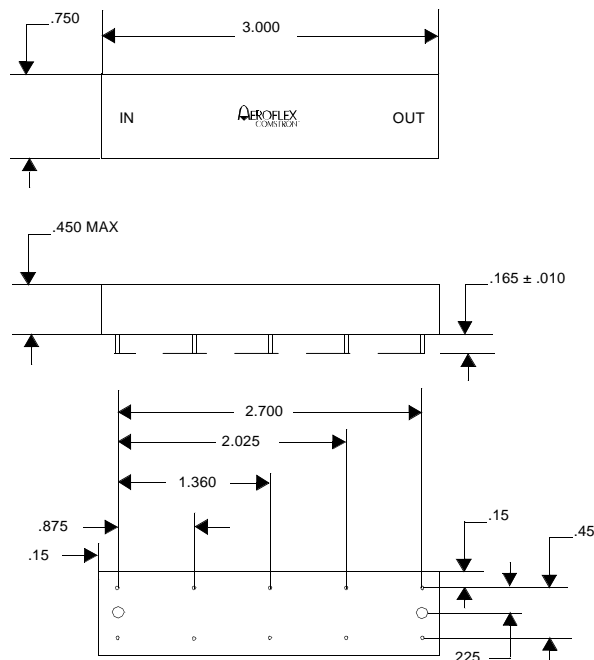
The Comstron Model PSC-4500 is a highly selective elliptic function bandpass filter with multiple allpass delay equalizer sections. It provides an extremely flat passband - both for delay and amplitude/return loss response along with excellent stopband rejection. Additionally, the small size of the device along with its high reliability, makes the PSC4500 perfect for commercial/military and ground/flight applications

PSC-4500

SPECIFICATIONS

| CHARACTERISTICS | TYPICAL | LIMITS |
|-----------------------|-----------------|---------------|
| CENTER FREQUENCY | 70 MHZ | - |
| PASSBAND 52 TO 88 MHZ | - | - |
| AMPLITUDE RIPPLE | $\pm .075$ DB | $< \pm .1$ DB |
| IN/OUT VSWR | 1.28:1 | $< 1.3:1$ |
| INSERTION LOSS | 3.0 DB | < 3.5 DB |
| GROUP DELAY | 4 NS P-P | < 5 NS P-P |
| STOPBAND REJECTION | | |
| DC TO 30 MHZ | 70 DB | > 65 DB |
| 105 TO 320 MHZ | 70 DB | > 65 DB |
| IMPEDANCE | 50 Ω | |
| OPERATING TEMP. | -20 TO + 85 ° C | |

OUTLINE DRAWING



RESPONSE CURVES

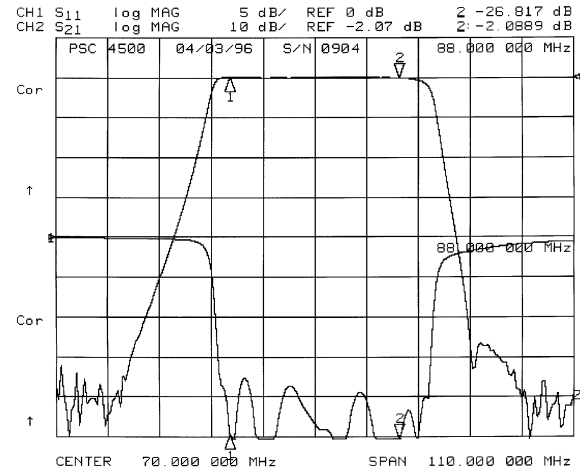


Figure 1: Overall Response

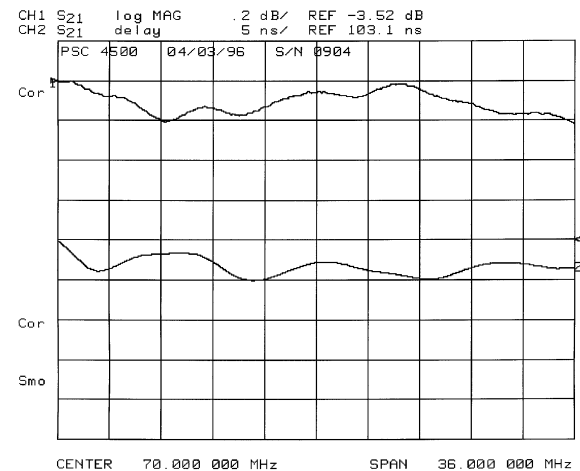


Figure 2: Passband Response



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Precision Supercomponents For Critical Applications

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