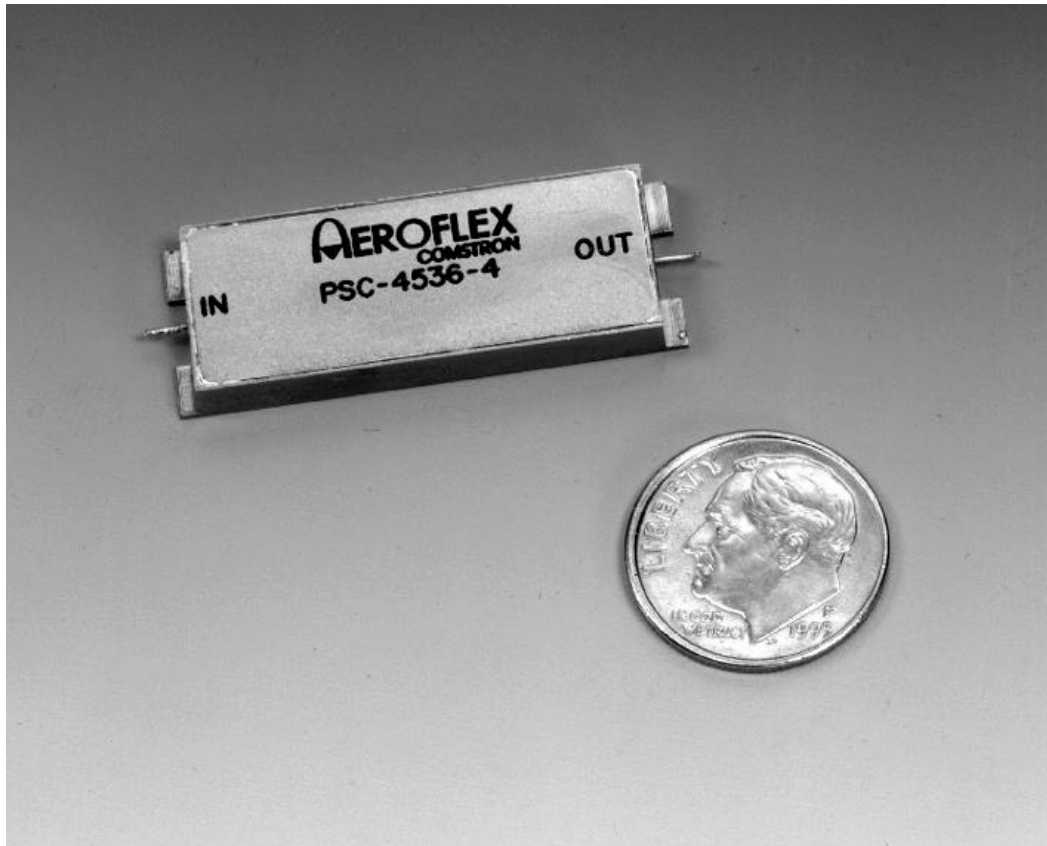


**SURFACE MOUNT 70 MHZ  
SQUARE ROOT RAISED  
COSINE FILTER WITH  
.160 INCH HEIGHT**



#### FEATURES

- SURFACE MOUNTABLE
- LOW PROFILE FOR SEM APPLICATION
- HIGH PERFORMANCE
- FREQUENCY RANGE 70MHZ- 18 GHZ

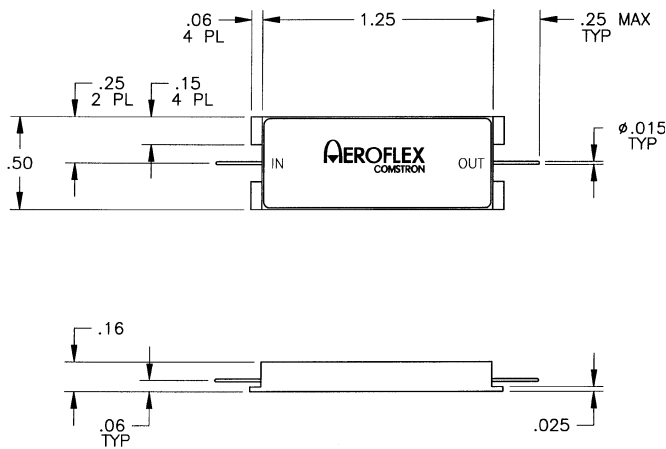
#### DESCRIPTION

The Comstron Model PSC-4536-4 is a square-root raised cosine bandpass filter that serves to normalize the amplitude response of an input  $|\sin x/x|$  signal spectrum and produces minimum time domain distortion in a PAM system. The filter's small size and low profile of only .160 inches allows its use in a Military SEM Package.

SPECIFICATIONS

CHARACTERISTICS	LIMITS
CENTER FREQUENCY	70.0 MHz
1 DB BANDWIDTH TOLERANCE	± .975 MHz ±.1 dB
3 DB BANDWIDTH TOLERANCE	± 1.625 MHz ± .4 dB
10 DB BANDWIDTH TOLERANCE	± 2.6 MHz ± 1.0 dB
30 DB BANDWIDTH TOLERANCE	± 3.25 MHz ± 4.0 dB
ULTIMATE ATTENUATION TO 200 MHZ	50 dB MINIMUM
INSERTION LOSS	15 dB NOMINAL
IMPULSE RESPONSE	10% MAXIMUM
NYQUIST FREQUENCY	3.25 MHz
CHANNEL ROLLOFF FACTOR	$\alpha=1.0$
OPERATING TEMP.	-55° TO + 100 °C

OUTLINE DRAWING



RESPONSE CURVES

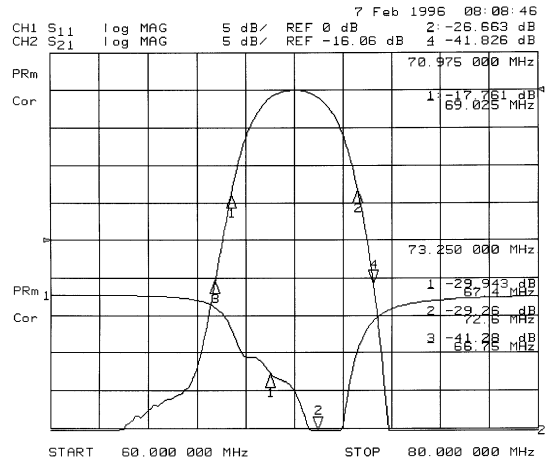


Figure 1: Frequency Response

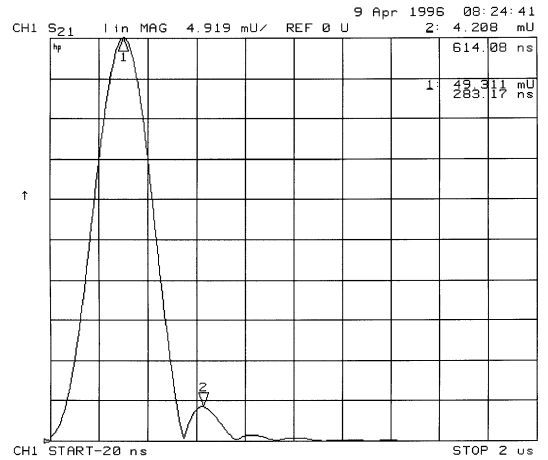


Figure 2: Impulse Response