### KR Electronics, Inc.

www.krfilters.com

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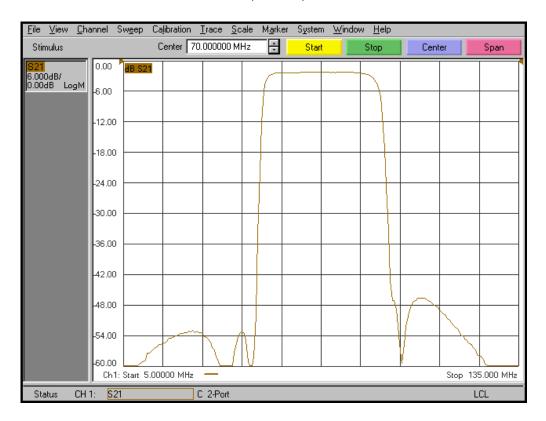
### **General Description**

KR Electronics part number 3157-1 is a 70 MHz bandpass filter. The filter has a min 0.5 dB bandwidth of 30 MHz. The filter is amplitude equalized for flat passband response. Stopband attenuation of 45 dB is maintained to 5 GHz. Elliptic type response for quick transition to the stopband. Other frequencies are available. Please consult the factory.

### Features

- 70 MHz Bandpass Filter
- 30 MHz min 0.5 dB Bandwidth
- 44 MHz typical 40 dB Bandwidth
- Stopband maintained to 5 GHz
- Elliptic Type Response
- 50  $\Omega$  Source and Load
- SMA Connectors

### **Typical Performance**



Overall Response (6 dB/div)

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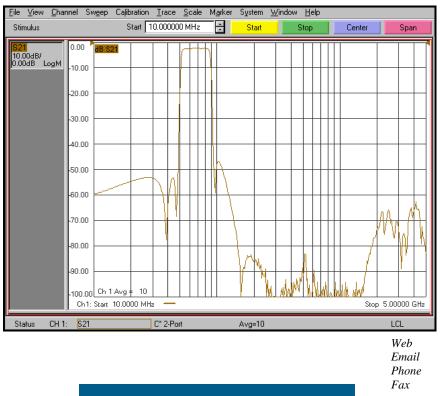
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### **Typical Performance**

#### <u>File View Channel Sweep Calibration Trace Scale Marker System Window Help</u> Center 70.000000 MHz ÷ Start Stimulus Stop Center Span 0.00 dB S21 1.000dB/ 0.00dB LogM 1.00 50.00ns/ 40.0ns Delay 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 Ch2: Start 52.0000 MHz Stop 88.0000 MHz CH 2: S21 C 2-Port LCL Status

#### Passband Amplitude & Group Delay (1 dB/div & 50 nsec/div)

### Overall Response (10 dB/div)



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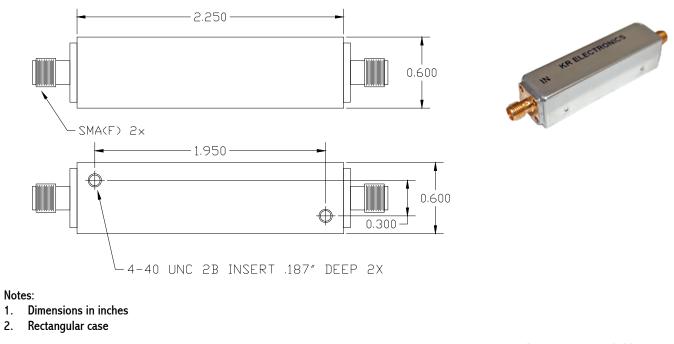
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## **KR Electronics 3157-1**

### **Specifications**

Parameter	Specification	Notes
Filter type	Bandpass	
Center Frequency (Fc)	70 MHz	
Insertion Loss (at Fc)	2.8 dBa max	2 dBa typical
0.5 dBc Bandwidth	30 MHz min	31.6 MHz typical
1 dBc Bandwidth	34 MHz typical	
3 dBc Bandwidth	37 MHz typical	
40 dBc Bandwidth	44 MHz typical	
Rejection at 48 MHz	45 dBc min	
Rejection at 93 MHz	35 dBc min	
Rejection to 5 GHz	45 dBc min	>50 dBc typical
Source and Load	50 Ω	

### **Physical Dimensions**



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