KR Electronics, Inc.

www.krfilters.com

KR Electronics, Inc.

General Description

KR Electronics part number 3155-SMA is a 16 MHz bandpass filter. The filter has a min 3 dB bandwidth of 4 MHz. The filter is group delay equalized for linear phase in the passband. Elliptic type response for quick transition to the stopband. Other frequencies are available. Please consult the factory.

Features

- 16 MHz Bandpass Filter
- 4 MHz min 3 dB Bandwidth
- 8 MHz max 20 dB Bandwidth
- Linear Phase ±2° max
- Elliptic Type Response
- 50 Ω Source and Load
- SMA Connectors
- Surface Mount Also Available

Typical Performance



Overall Response (6 dB/div)

(6 aB/aiv)

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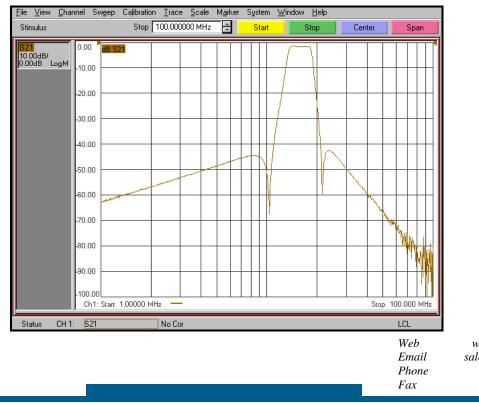
Typical Performance

<u>File View Channel Sweep Calibration Trace Scale Marker System Window Help</u> Center 16.000000 MHz ÷ Start Stimulus Stop Center Span dB S21 0.00 1.000dB/ 0.00dB LogM -1.00 <mark>821</mark> 20.00ns/ 420ns Delay 2.00 3.00 4.00 5.00 6.00 7.00 8.00 la nn 10.00 Ch2: Start 14.0000 MHz Stop 18.0000 MHz CH 2: S21 C 2-Port LCL Status

Passband Amplitude & Group Delay

(1 dB/div & 20 nsec/div)

Overall Response (10 dB/div)



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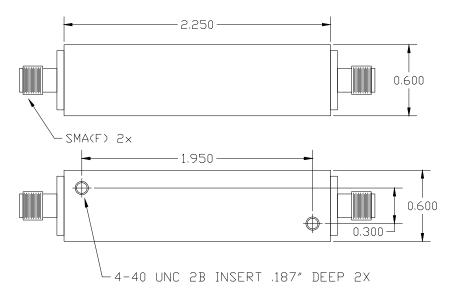
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KR Electronics 3155-SMA

Specifications

Parameter	Specification	Notes
Filter type	Bandpass	
Center Frequency (Fc)	16 MHz	
Insertion Loss (at Fc)	4 dBa max	< 2 dBa typical
3 dB Bandwidth	4 MHz min	5.1 MHz typical
20 dB Bandwidth	8 MHz max	7.6 MHz typical
40 dB Bandwidth	10 MHz typical	
Phase Linearity 14 MHz to 18 MHz	±2° max	< ±1° typical
Source and Load	50 Ω	

Physical Dimensions





Notes:

- 1. Dimensions in inches
- 2. Rectangular case
- 3. Also available in surface mount package 1.5" x 0.5" x 0.3" (see part number 3155)

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