

KR Electronics, Inc.

General Description

KR Electronics part number 3042 is a 140 MHz bandpass filter. The filter has a minimum 3 dB bandwidth of 36 MHz and a maximum 40 dB bandwidth of 54 MHz. Other center frequencies and bandwidths are available. Please consult the factory.

Features

- 140 MHz Bandpass Filter
- 36 MHz min 3 dB Bandwidth
- 54 MHz max 40 dB Bandwidth
- Sharp Elliptic Type Design
- Group Delay Equalized
- 50 Ω Source and Load
- Surface Mount
- Also available with SMA Connectors

Typical Performance

Overall Response (10 dB/div)

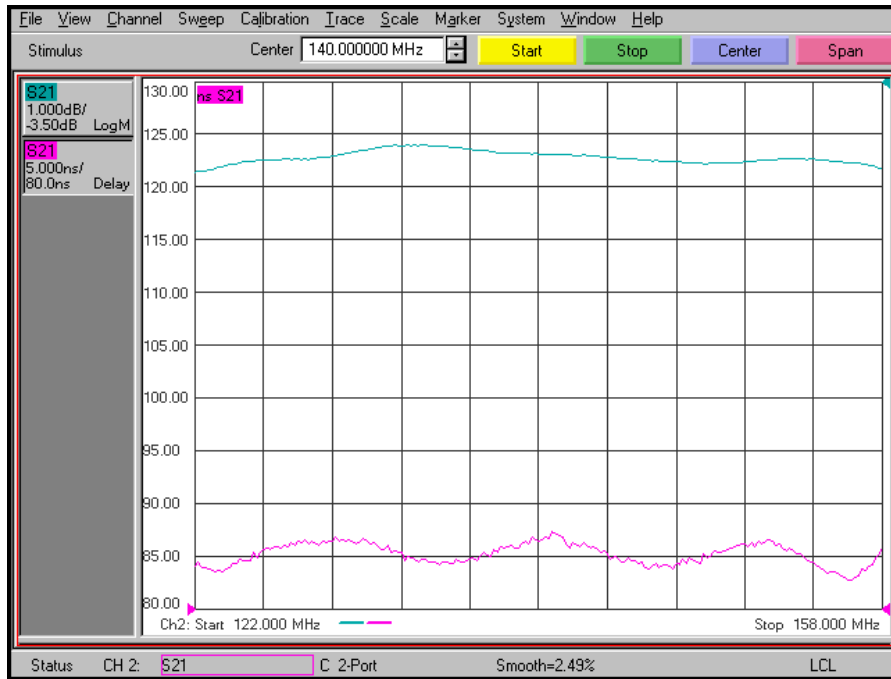


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Passband Amplitude & Group Delay (1 dB/div & 5 nsec/div)



Overall Response (10 dB/div)



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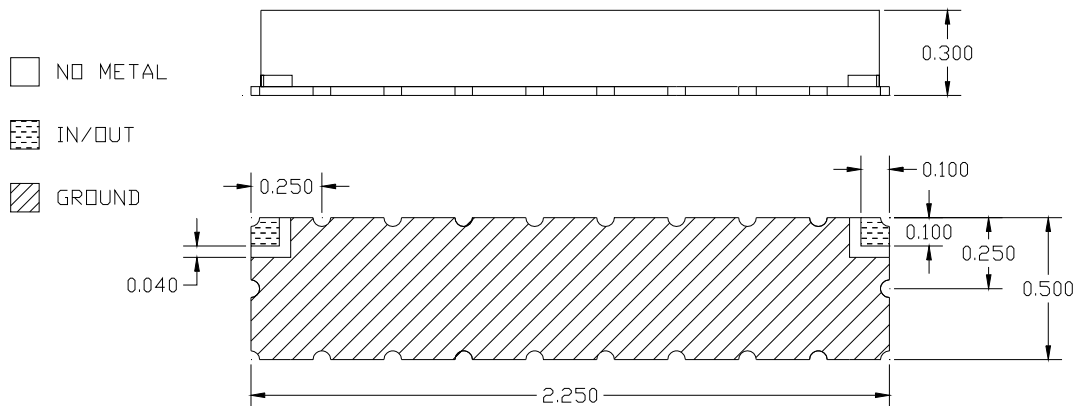
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Specifications

| Parameter | Specification | Notes |
|--|----------------|----------------|
| Filter type | Bandpass | |
| Center Frequency | 140 MHz | |
| Insertion Loss | 7 dB max | 4.5 dB typical |
| 1 dB Bandwidth | 40 MHz typical | |
| 3 dB Bandwidth | 36 MHz min | 44 MHz typical |
| 40 dB Bandwidth | 54 MHz max | |
| Group Delay Variation 122 MHz to 158 MHz | 5 nsec typical | |
| Source and Load | 50 Ω | |

Physical Dimensions



Notes:

1. Surface mount package — Metal cover open frame
2. Dimensions in inches
3. Maximum reflow temperature is 209° C for 10 sec maximum.
4. If boards are cleaned after installation, units must be completely dried.