

# 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  $\Omega$  Source and Load
- Surface Mount
- Also available with SMA Connectors

## Typical Performance

**Overall Response**  
(10 dB/div)

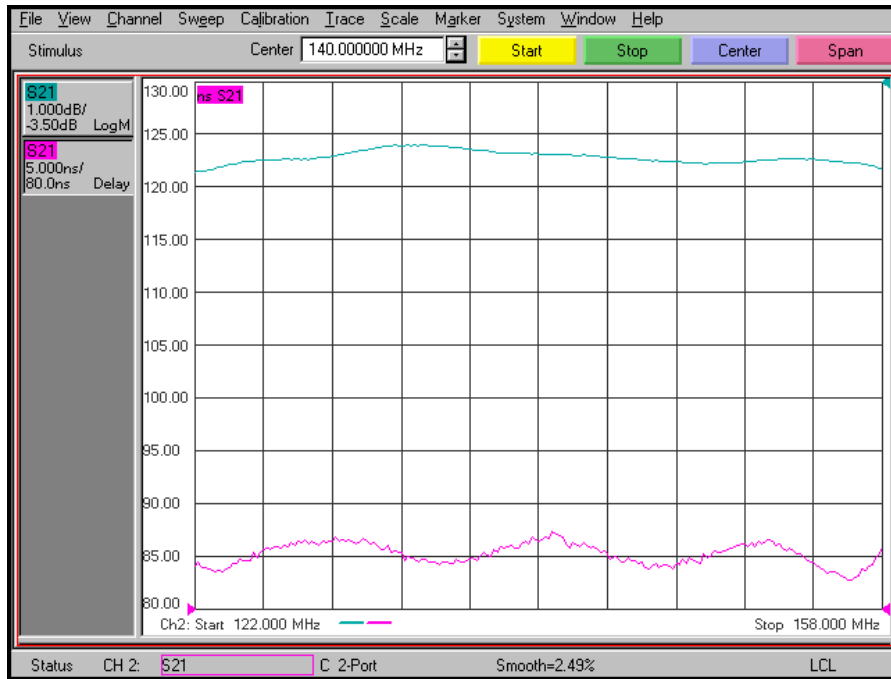


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## Passband Amplitude & Group Delay (1 dB/div & 5 nsec/div)



## Overall Response (10 dB/div)



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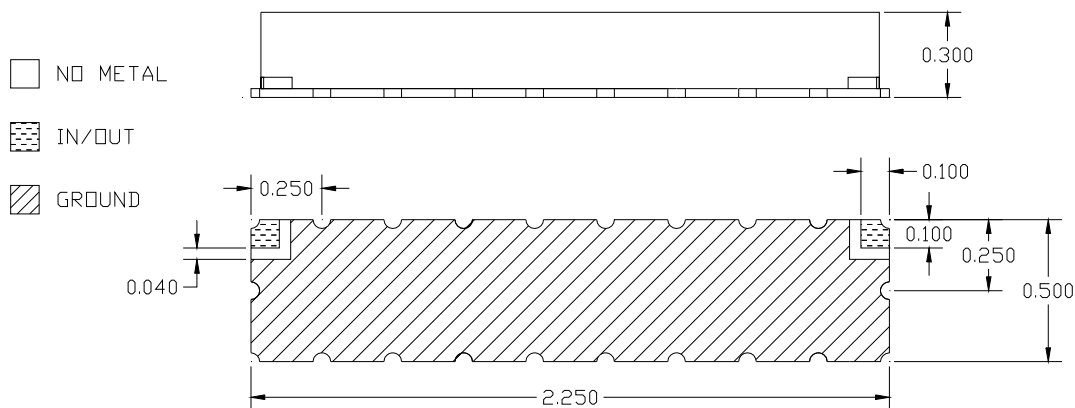
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## Specifications

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.