

# KR Electronics, Inc.

## General Description

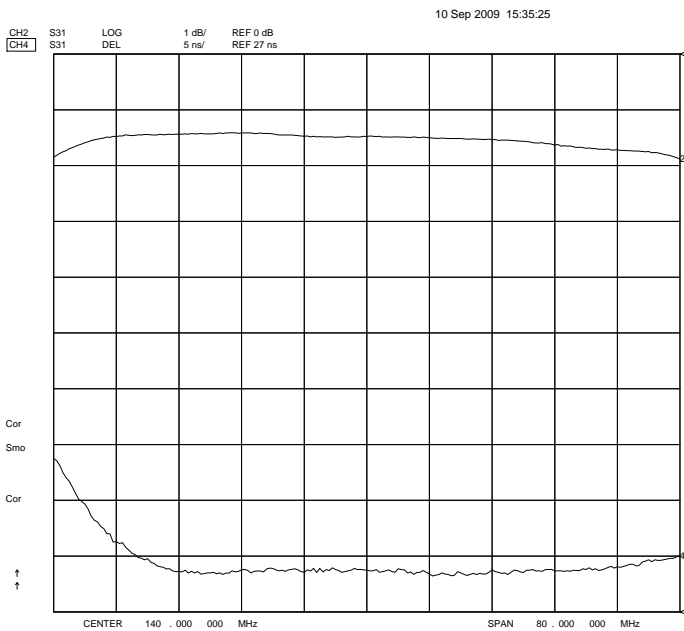
KR 2903-S+ is a 140 MHz group delay equalized elliptic band-pass filter. The filter has a minimum 2 dB bandwidth of 80 MHz. Other center frequencies and bandwidths available. Please consult the factory.

### Features

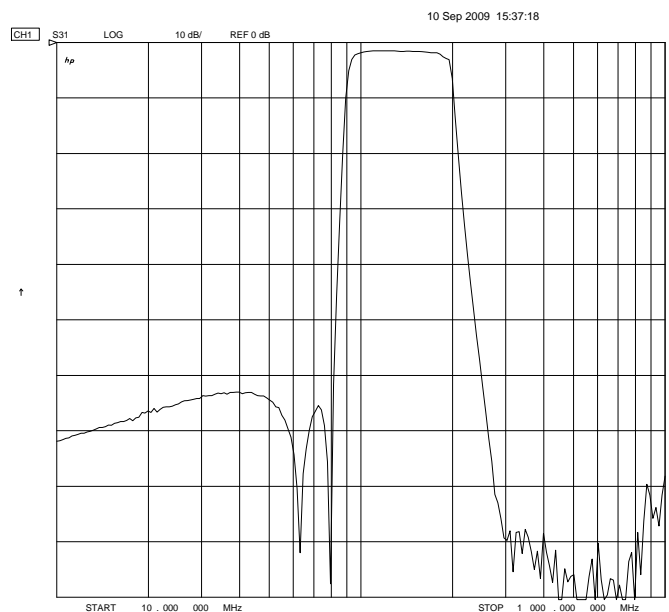
- 140 MHz Elliptic Bandpass
- 80 MHz minimum 2 dB Bandwidth
- Group Delay Equalized
- Surface Mount
- 50  $\Omega$  Source and Load
- RoHS

## Typical Performance

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



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



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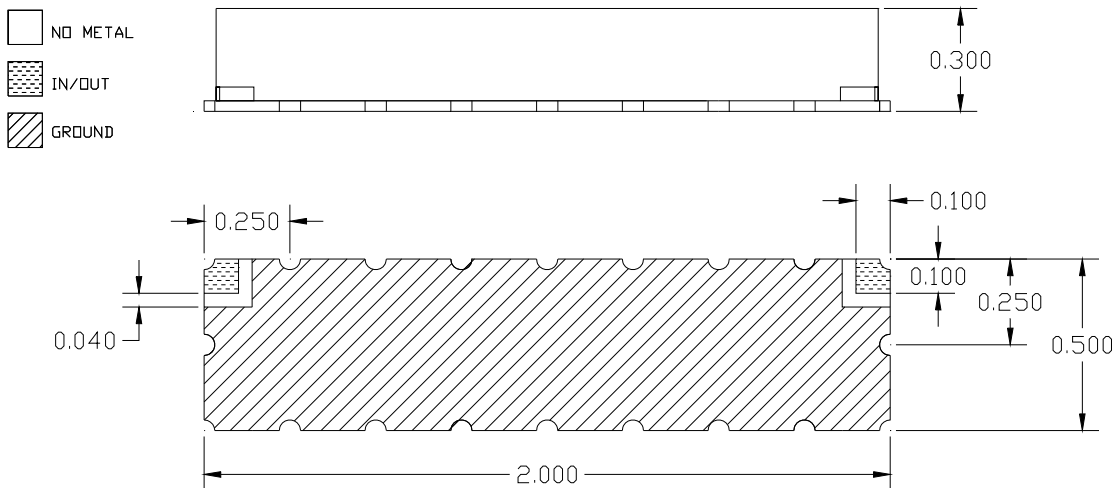
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# KR Electronics 2903-S+

## Specifications

Parameter	Specification
Filter type	Bandpass RoHS
Center Frequency	140 MHz
Insertion Loss	< 2 dB typical
2 dB Bandwidth	80 MHz min (100 MHz typical)
Group Delay Variation 110 MHz to 170 MHz	3 nsec max
Rejection at 80 MHz & 272 MHz	50 dB min
Typical 1 dB Bandwidth	94 MHz
Typical 2 dB Bandwidth	100 MHz
Typical 40 dB Bandwidth	145 MHz
Typical 50 dB Bandwidth	158 MHz
Typical 60 dB Bandwidth	171 MHz
Source and Load	50 $\Omega$

## Physical Dimensions



### Notes:

1. Surface mount package — Metal cover open frame
2. Dimensions in inches
3. Maximum reflow temperature is 230° C for 10 sec maximum.
4. If boards are cleaned after installation, units must be completely dried.