

KR 2455 Lowpass Filter

General Description

KR 2455 is a 45 MHz lowpass filter. The filter is group delay equalized and includes $\sin(x)/x$ compensation for a sampling frequency of 105 MHz. The filter can be supplied without $\sin(x)/x$ correction. Please consult the factory for other passband or sampling frequencies.

Features

- 45 MHz passband
- $\sin(x)/x$ correction
- Sharp transition to 60 dB
- 50 Ω

Typical Performance

Effective Passband & Group Delay
(0.25 dB/div & 5 nsec/div)

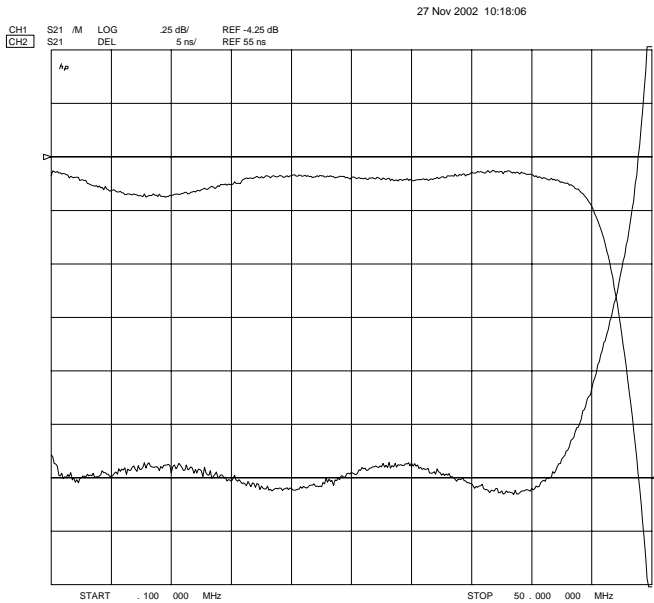


Figure 1

Overall Response
(10 dB/div)

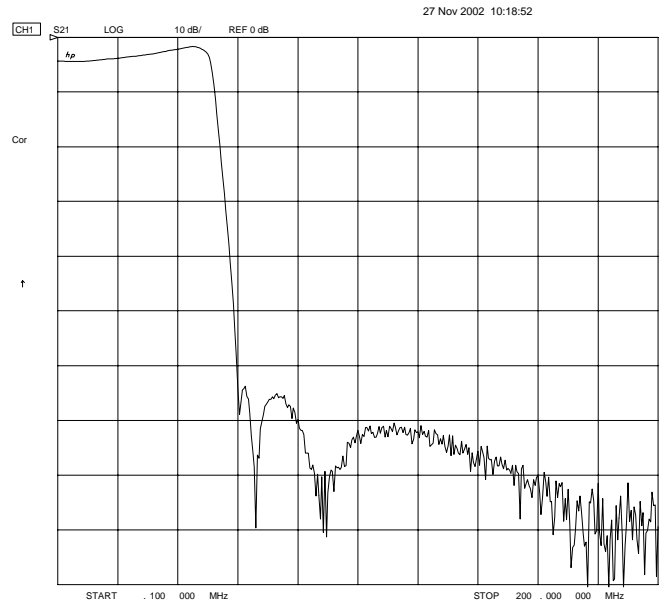


Figure 2

KR Electronics, Inc.
91 Avenel Street
Avenel, NJ 07001

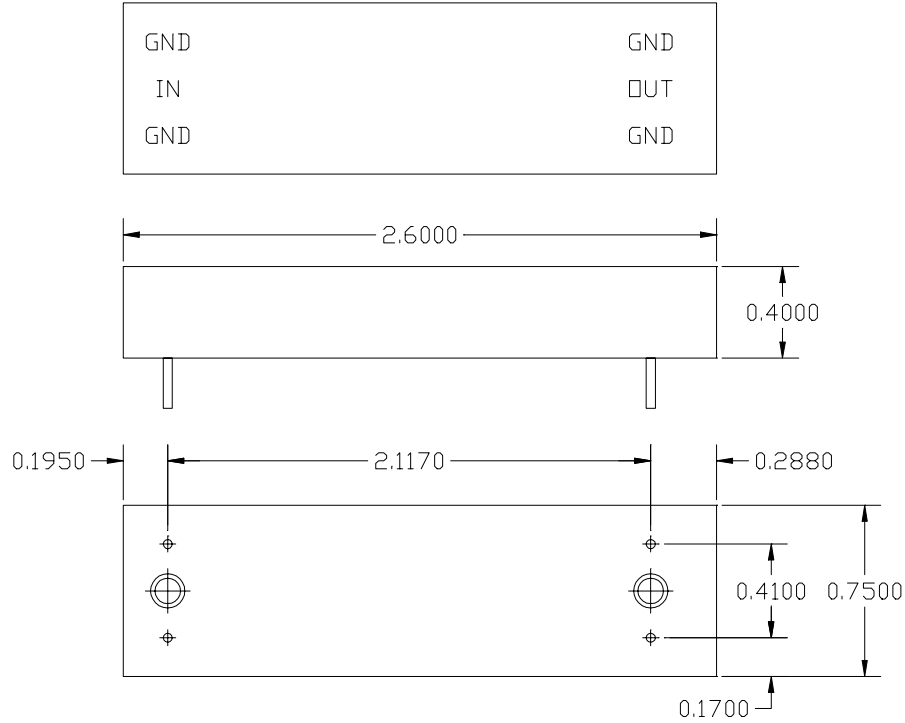
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KR 2455

Specifications

Parameter	Specification
Filter type	Lowpass
End of Passband	45 MHz
Effective Passband Ripple	< 0.5 dB
Insertion Loss (at 100 KHz)	< 4 dB
Group Delay Ripple	< 10 nsec
Sin(x)/x Compensation	Yes
Sampling Frequency	105 MHz
Start of Stopband	60 MHz
Stopband Attenuation	60 dB
Source & Load	50 Ω

Physical Dimensions



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