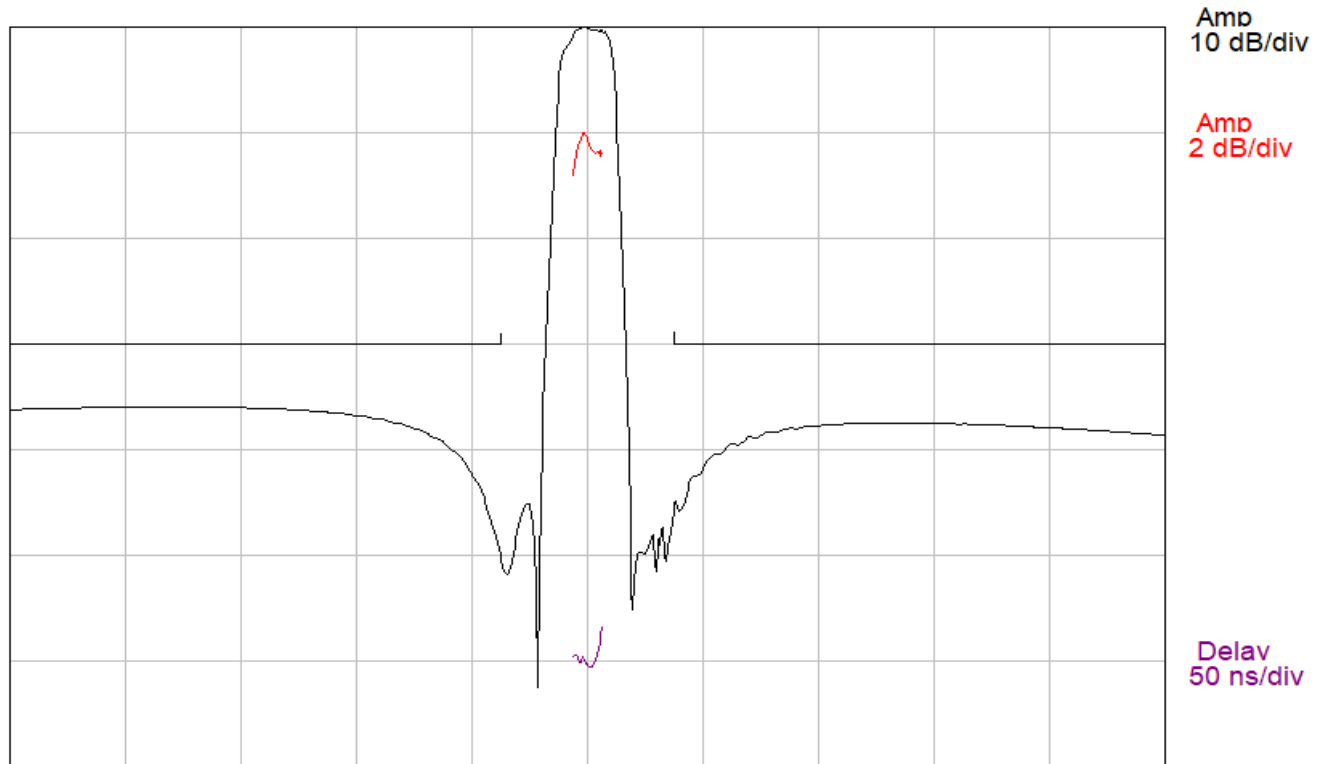


DESCRIPTION

- 525 MHz Filter with 10 MHz Bandwidth
- 7 x 5 mm Ceramic LCC Package, 10 Pads
- RoHS compliant

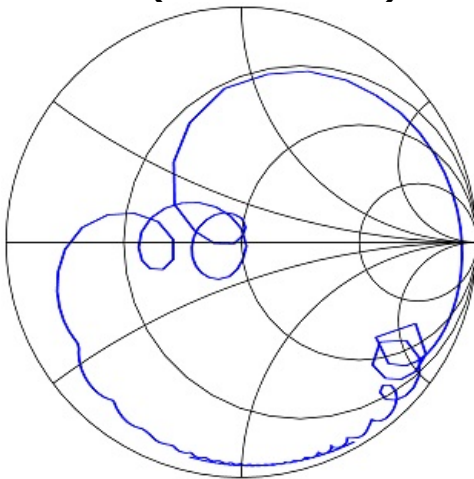
SIMULATION

TYPICAL PERFORMANCE

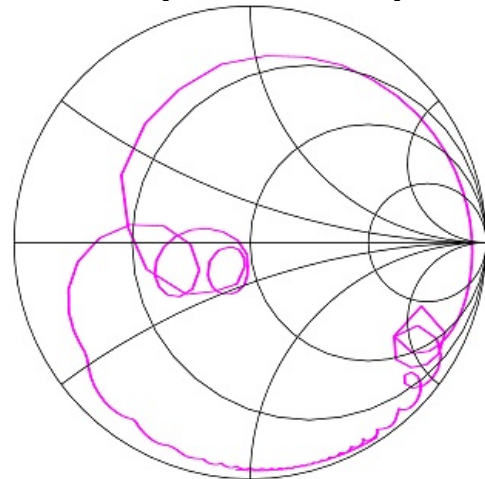


Center = 525 MHz, 40 MHz/div (500 kHz incr)

S₁₁ (325-725 MHz)



S₂₂ (325-725 MHz)



SPECIFICATION

Parameter	Min	Type	Max	Units
Minimum Insertion Loss	---	2.0	3.2	dB
Device Delay	---	0.051	---	μsec
2 dB bandwidth ¹	10	15.29	---	MHz
Lower 2 dB Frequency ¹	---	517.49	520	MHz
Upper 2 dB frequency ¹	530	532.78	---	MHz
Center frequency (Fc, 3 dB) ¹	---	524.61	---	MHz
3 dB Bandwidth ¹	12	17.52	---	MHz
Lower 3 dB Frequency ¹	---	515.85	519	MHz
Upper 3 dB Frequency ¹	531	533.37	---	MHz
Lower 30 dB Frequency ¹	495	510.46	---	MHz
Upper 30 dB Frequency ¹	---	537.90	555	MHz
Amplitude Ripple (520-530 MHz)	---	0.82	2	dB p-p
Group Delay Ripple (220-230 MHz)	---	20	---	ns p-p
Rejection (25-195 MHz) ¹	30	36	---	dB
Rejection (255-425 MHz) ¹	30	38	---	dB
Input Return Loss (220-230 MHz) ²	6	10.4	---	dB
Output Return Loss (220-230 MHz) ²	6	10.0	---	dB
Material Temperature Coefficient	-40			ppm/°C
Source and Load Impedance	50			ohms
Ambient Temperature	25			°C

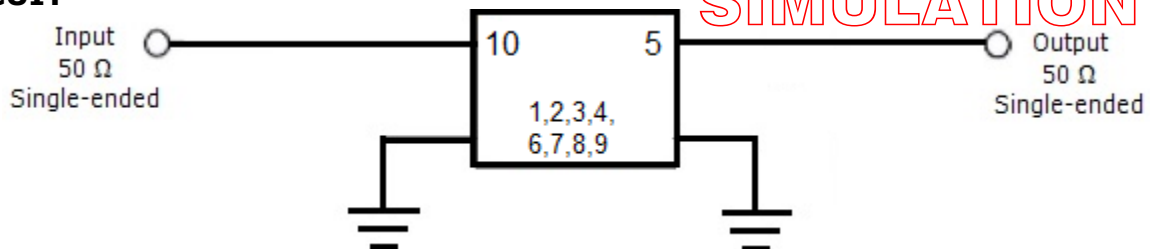
Notes: 1. Parameter value is referenced to the insertion loss value.
2. Part is to operate in a 50 ohm single-ended system.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-55	125	°C
Input Power Level	+28	+34**	dBm

** Requires Verification

CIRCUIT

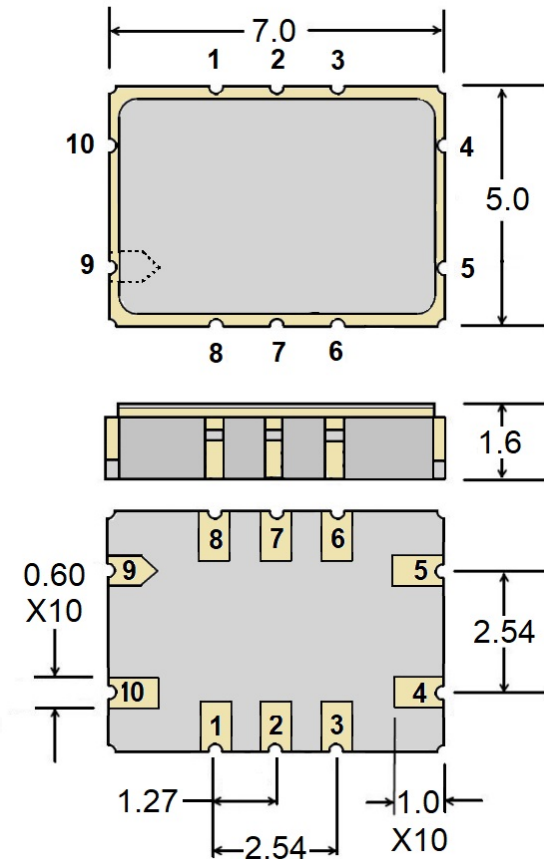


SIMULATION

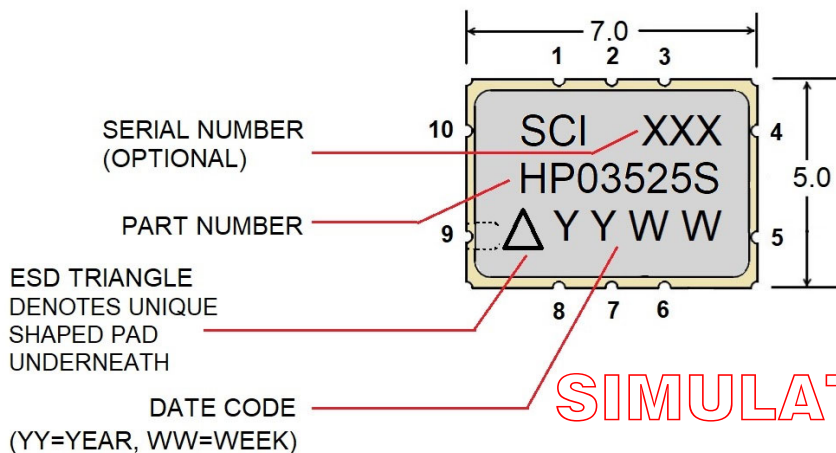
Notes:

- 1) Matching components are not required.
- 2) Recommended operation is in a 50 ohm system.

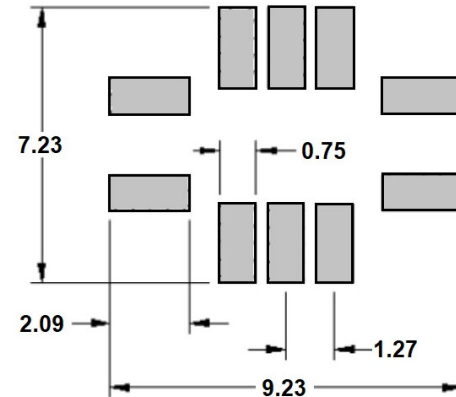
PACKAGE OUTLINE



MARKING



SUGGESTED FOOTPRINT



Units: mm

Typical tolerances are ± 0.15 mm except where indicated.

Pad Configuration:

Input: 5
Output: 10
Ground: All other pads

Package Material:

Body: Al_2O_3 ceramic
Lid: Kovar, Ni plated
Terminations: Au plating 1 μm min, over a 1.3-8.9 μm Ni plating

SIMULATION

**ISO 9001
Registered**

All specifications are believed to be accurate and reliable. However, Spectrum Control reserves the right to make changes without notice.
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