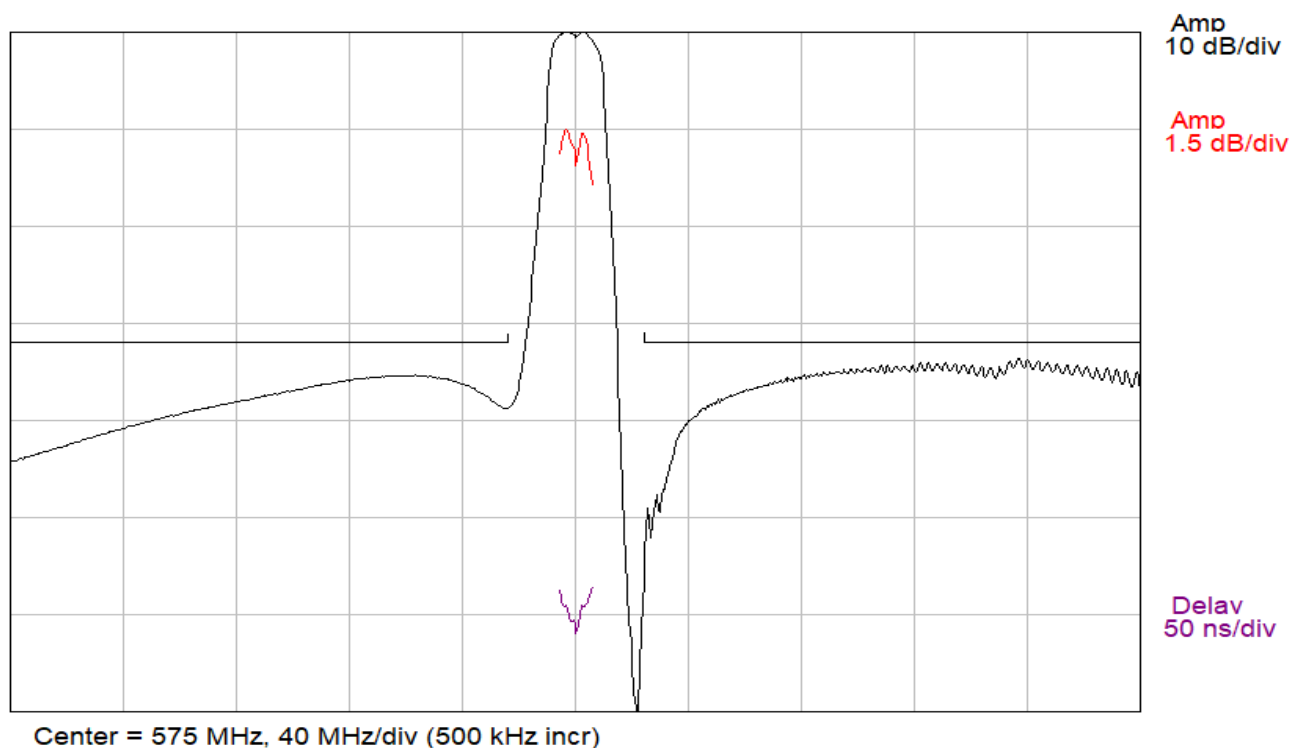


SF0575HP03515S

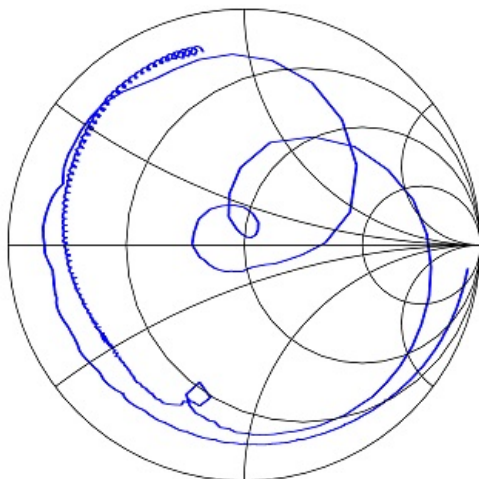
575 MHz SAW Filter
12 MHz Bandwidth

- 575 MHz High Power Filter with 12 MHz Bandwidth
- 7 x 5 mm Ceramic LCC Package, 10 Pads
- RoHS compliant

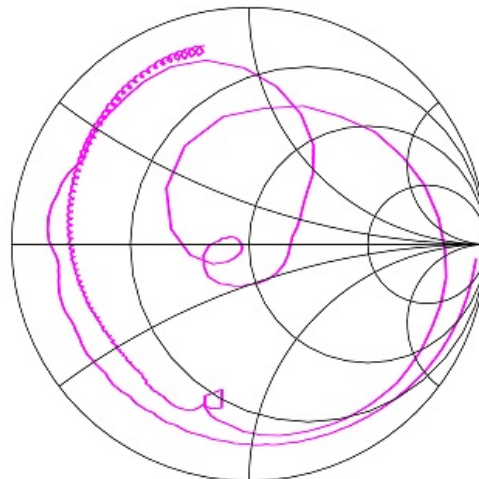
TYPICAL PERFORMANCE



S₁₁ (375-775 MHz)



S₂₂ (375-775 MHz)



SPECIFICATION

Parameter	Min	Typ	Max	Units
Minimum Insertion Loss	---	2.25	3	dB
Device Delay	---	0.0510	---	μsec
2 dB bandwidth ¹	12	16.430	---	MHz
Center frequency (Fc, 3 dB) ¹	---	574.917	---	MHz
3 dB Bandwidth ¹	14	17.658	---	MHz
Lower 35 dB Frequency ¹	551	555.852	---	MHz
Upper 35 dB Frequency ¹	---	589.864	599	MHz
Amplitude Ripple (569-581 MHz)	---	0.88	2	dB p-p
Group Delay Ripple (569-581 MHz)	---	25	---	ns p-p
Rejection (375-551 MHz) ¹	32	35.4	---	dB
Rejection (599-775 MHz) ¹	32	33.6	---	dB
Input Return Loss (569-581 MHz) ²	8.1	13.1	---	dB
Output Return Loss (569-581 MHz) ²	8.1	13.2	---	dB
Temperature Coefficient of Frequency	-40			ppm/°C
Impedance	50			ohms
Ambient Temperature	25			°C

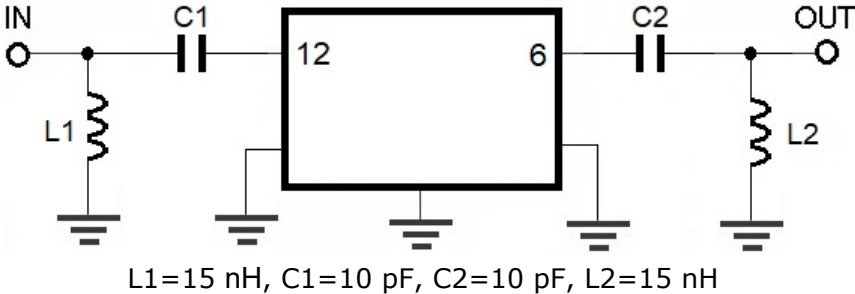
Note:

- 1. Parameter value is referenced to the insertion loss value.
- 2. Measured in a 50Ω system with external matching; 8.1 dB=2.3:1 VSWR.
- 3. Maximum Suggested Steady-State Input Power Level.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	-40	85	°C
Input Power Level ³	--	+32	dBm

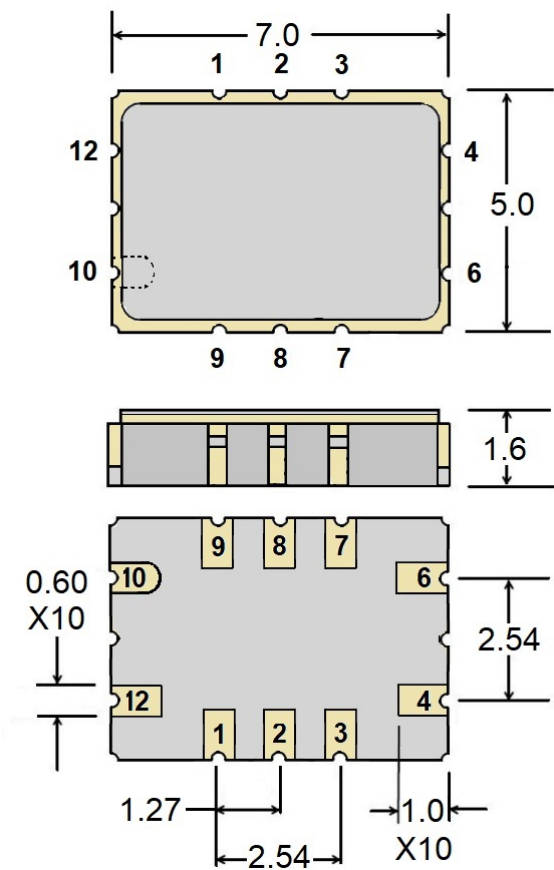
CIRCUIT



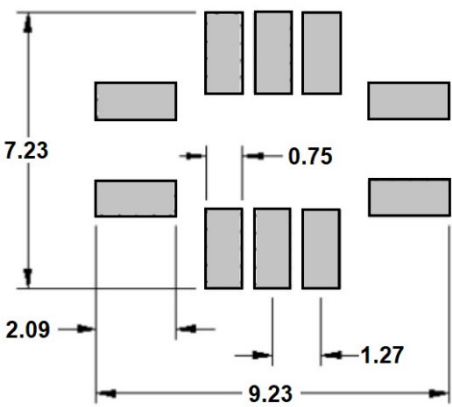
Notes:

- 1) Matching components for reference only. Typical inductor Q=40)
- 2) Recommended operation is in a 50 ohm system.

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



Units: mm

Typical tolerances are ± 0.15 mm except where indicated.

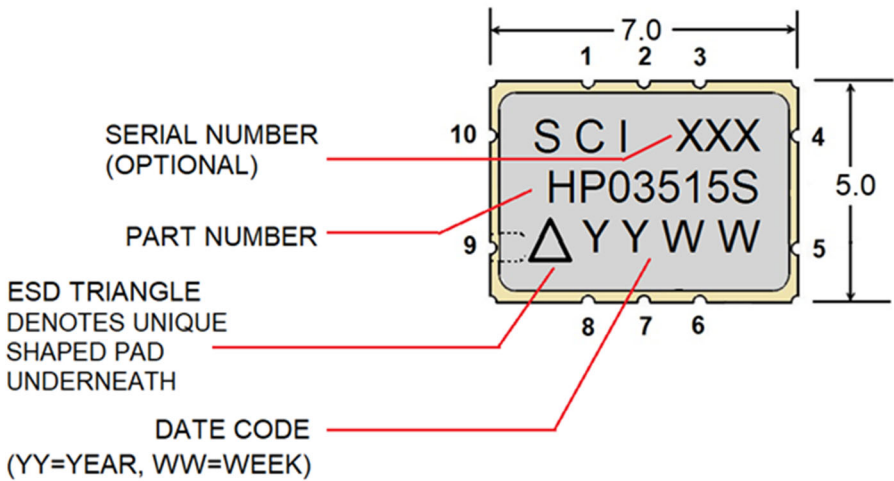
Pad Configuration:

Input: 12
Output: 6
Ground: All other pads

Package Material:

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

MARKING



ISO 9001
Registered