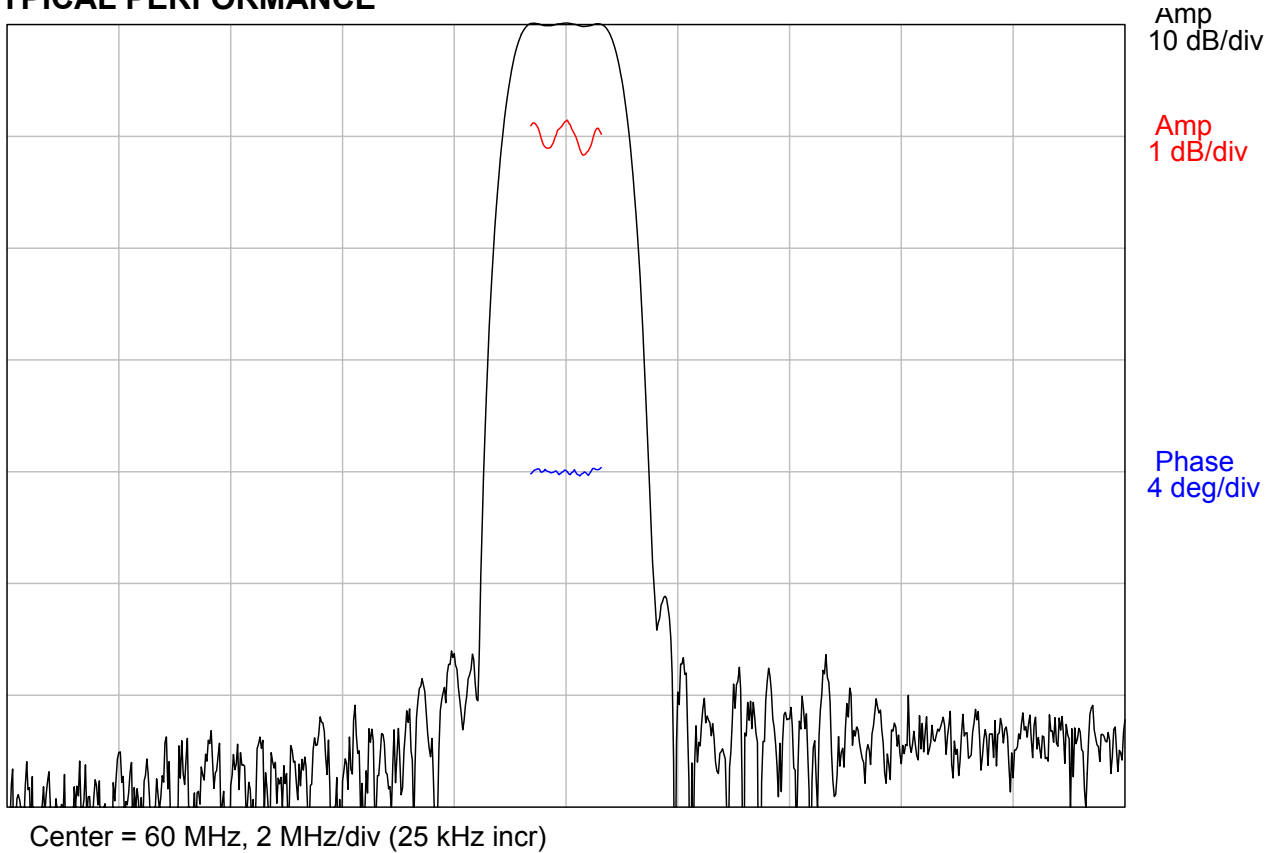


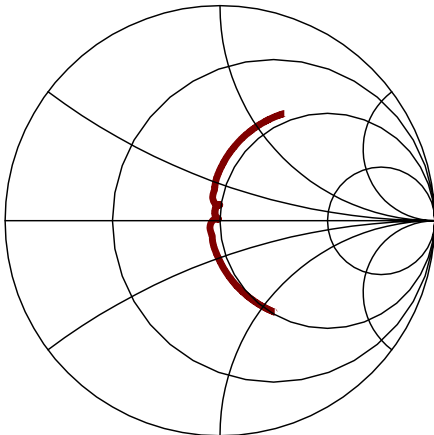
DESCRIPTION

- 60 MHz SAW bandpass filter with 1.26 MHz bandwidth.
- 35.1 x 20.6 mm 24-pin DIP package.
- RoHS compliant.

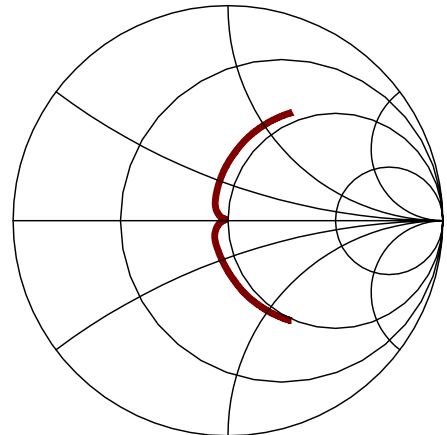
TYPICAL PERFORMANCE



S11 (50-70 MHz)



S22 (50-70 MHz)



SPECIFICATION

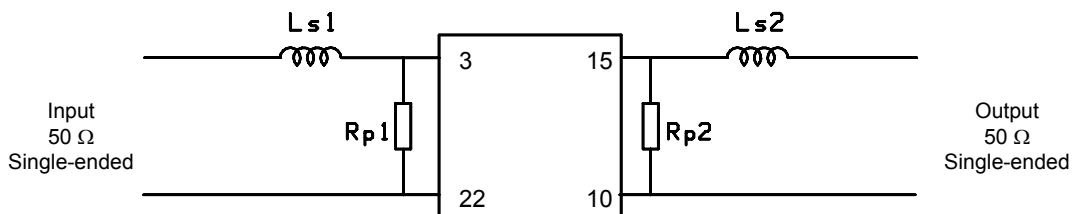
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	59.98	60.00	60.02	MHz
1dB Bandwidth ²	1.26	1.61	-	MHz
3dB Bandwidth ²	-	1.85	1.92	MHz
55dB Bandwidth ²	-	3.4	4.2	MHz
Device Delay	2.9	2.93	3	us
Insertion Loss (over 1dB BW)	-	29.8	34	dB
Passband Amplitude Ripple ³	-	0.3	0.4	dB p-p
Passband Phase Ripple ³	-	0.5	2	deg p-p
Triple Travel and Spurious	55	58	-	dB
Input VSWR (@ Fc at 23C)	-	1.35	1.5	:1
Output VSWR (@ Fc at 23C)	-	1.35	1.5	:1
Temperature Coefficient ⁴	-	-0.032	-	ppm/°C ²
Source and Load Impedance	-	50	-	Ω
Ambient Temperature	25			°C

- Notes:
1. Defined as the average of the lower and upper 3 dB frequencies at room ambient.
 2. All dB levels are defined relative to the insertion loss.
 3. Evaluated over the minimum 1 dB bandwidth.
 4. Temperature Coefficient inflection (Turnover) is approximately 45°C.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	-25	85	°C
Input Power Level	-	13	dBm

MATCHING CIRCUIT



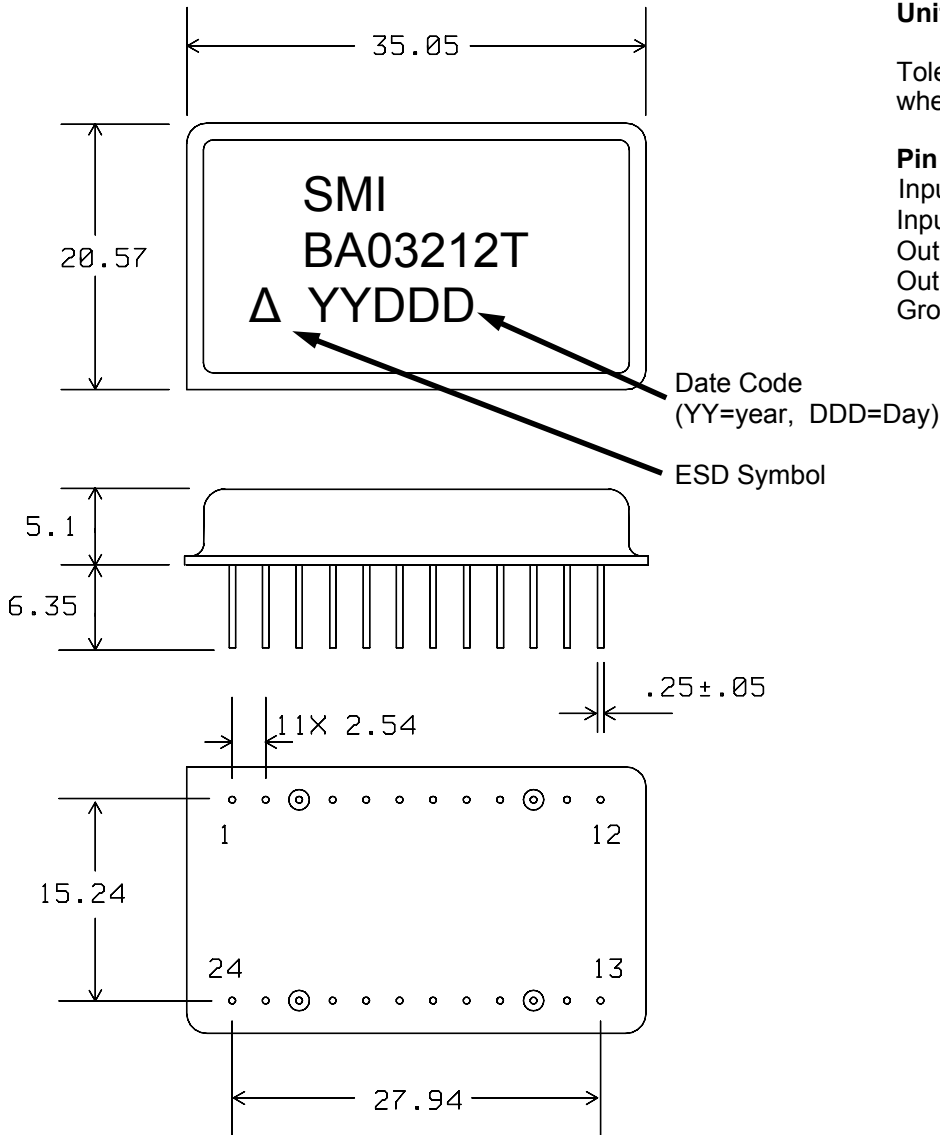
$$Ls1 = 470 \text{ nH} \quad Rp1 = 910 \text{ } \Omega$$

$$Ls2 = 509 \text{ nH} \quad Rp2 = 1100 \text{ } \Omega$$

Notes:

- Recommend 2% toleranced matching components. Typical Inductor Q=40.
- Values shown are for guidance only and may change depending upon board layout.

PACKAGE OUTLINE



Units: mm

Tolerances are ±0.15 mm except where indicated.

Pin Configuration:

Input:	3
Input Return:	22
Output:	15
Output Return:	10
Ground:	All other pins

ISO 9001
Registered

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