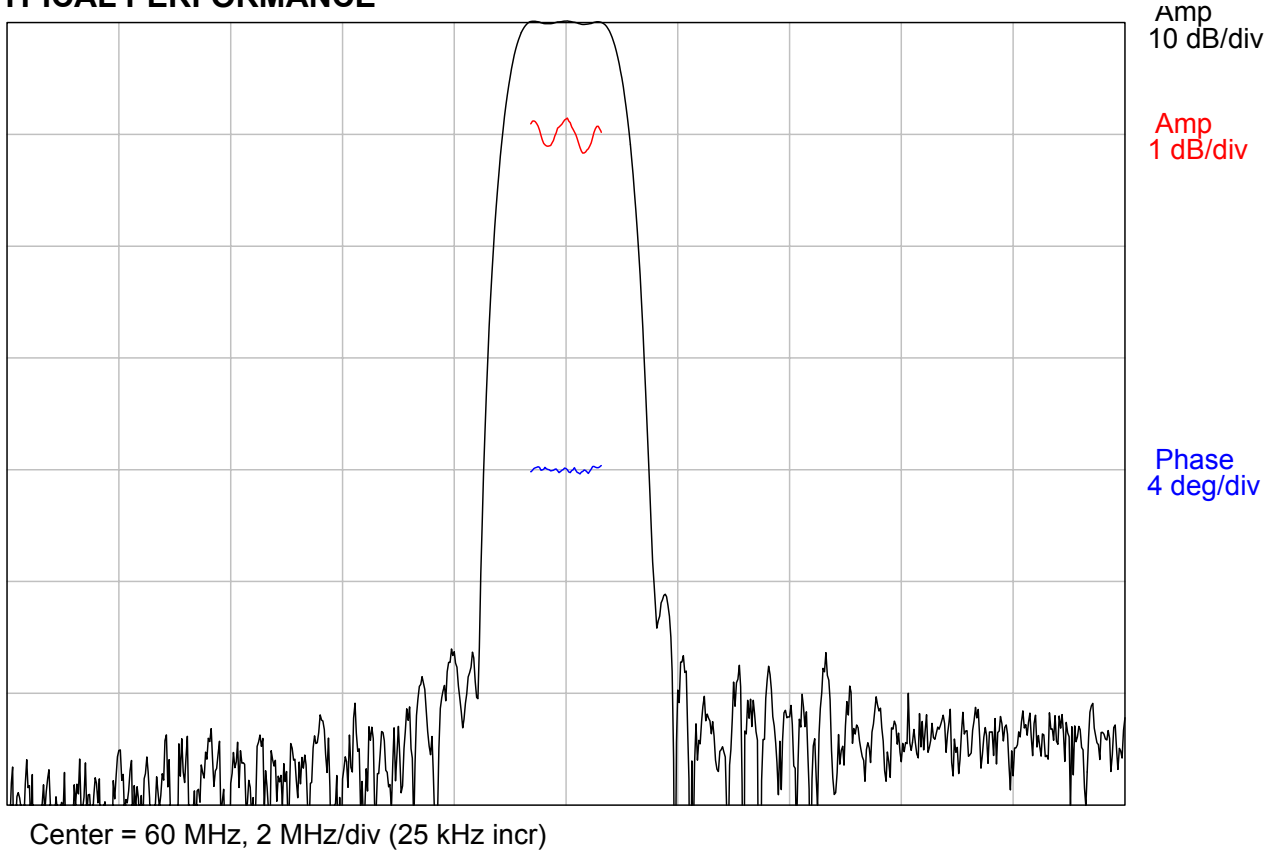


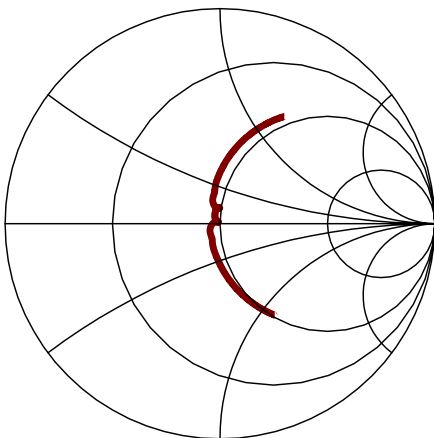
## DESCRIPTION

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

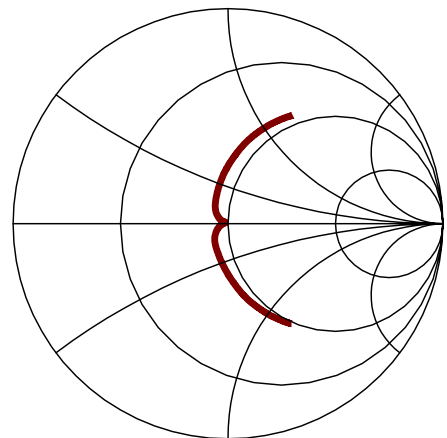
## TYPICAL PERFORMANCE



**S11 (50-70 MHz)**



**S22 (50-70 MHz)**



## SPECIFICATION

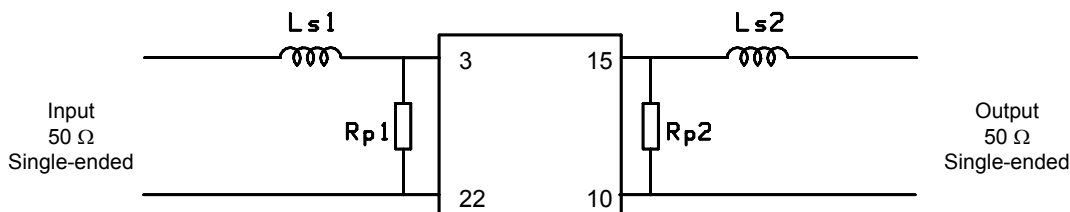
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) <sup>1</sup>	59.98	60.00	60.02	MHz
1dB Bandwidth <sup>2</sup>	1.26	1.61	-	MHz
3dB Bandwidth <sup>2</sup>	-	1.85	1.92	MHz
55dB Bandwidth <sup>2</sup>	-	3.4	4.2	MHz
Device Delay	2.9	2.93	3	us
Insertion Loss (over 1dB BW)	-	29.8	34	dB
Passband Amplitude Ripple <sup>3</sup>	-	0.3	0.4	dB p-p
Passband Phase Ripple <sup>3</sup>	-	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 <sup>4</sup>	-	-0.032	-	ppm/°C <sup>2</sup>
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



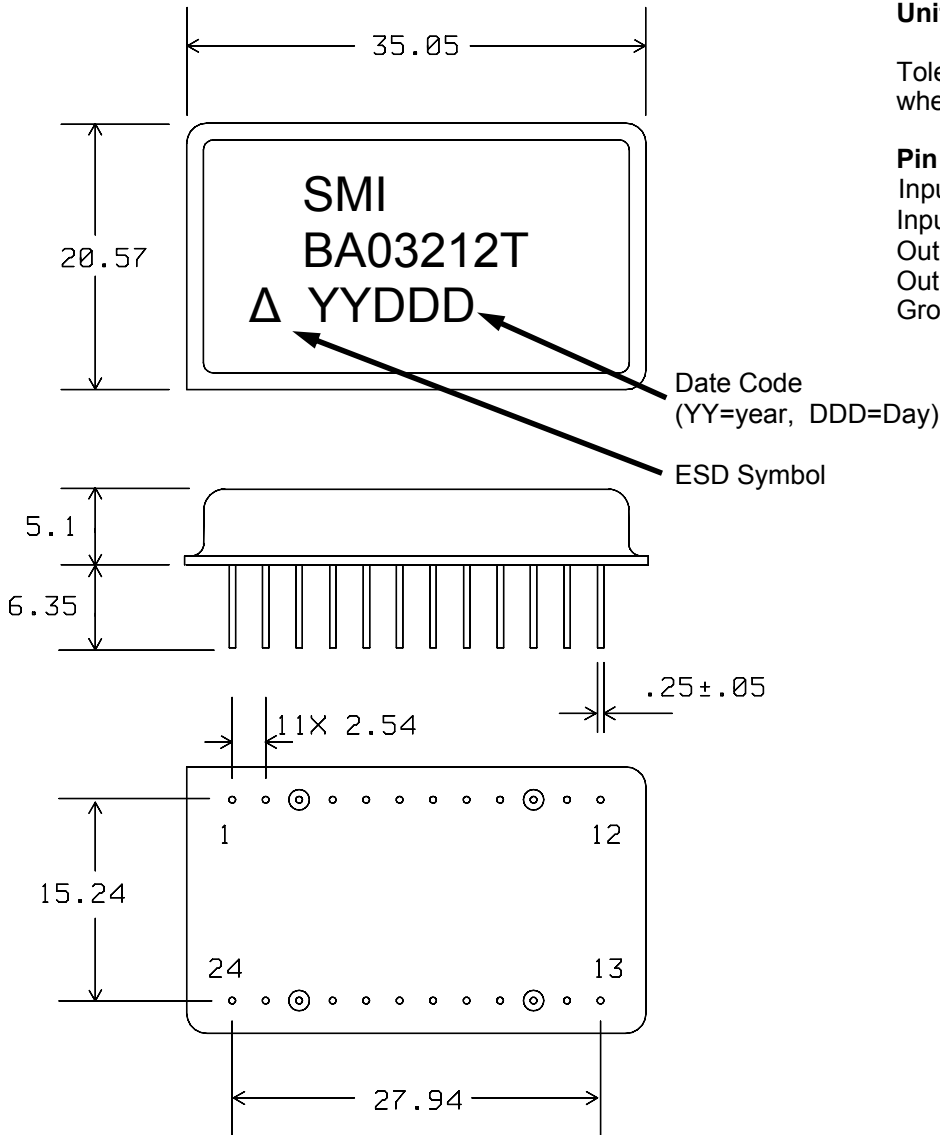
$$Ls1 = 470 \text{ nH} \quad Rp1 = 910 \text{ } \Omega$$

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

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  $\pm 0.15$  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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