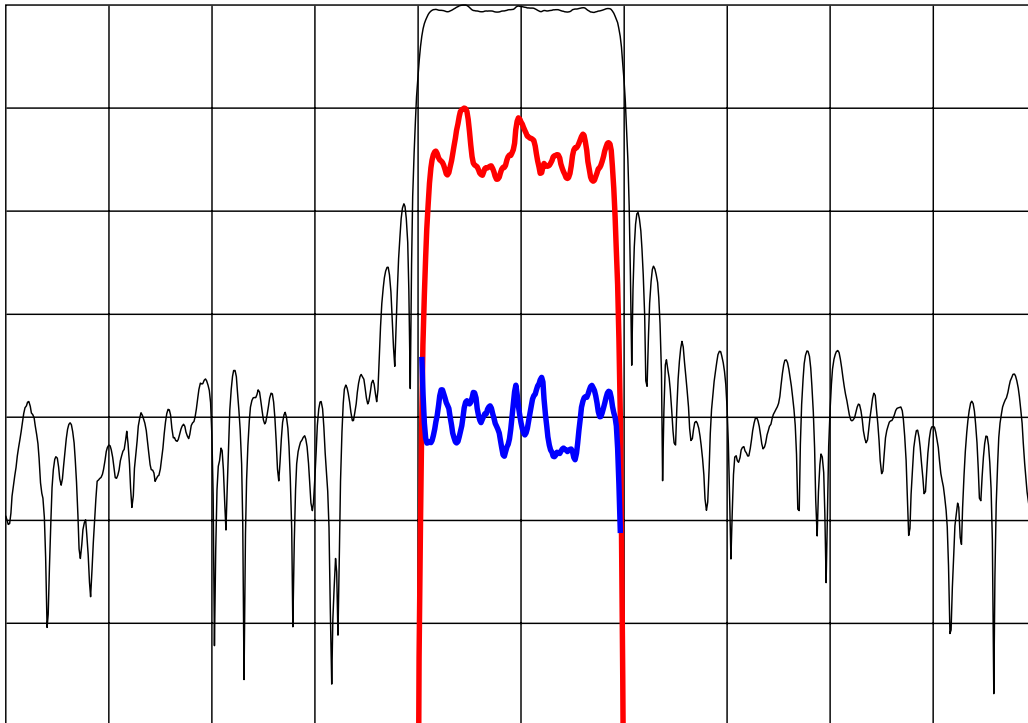


DESCRIPTION

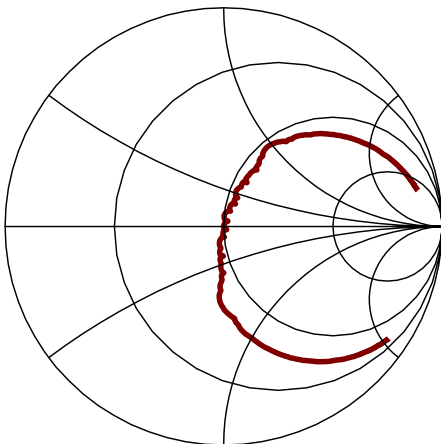
- 88.5 MHz high performance with 3.65 MHz bandwidth in a 15.9 X 6.5 mm SMP.
- 6/6 RoHS compliant.

TYPICAL PERFORMANCE

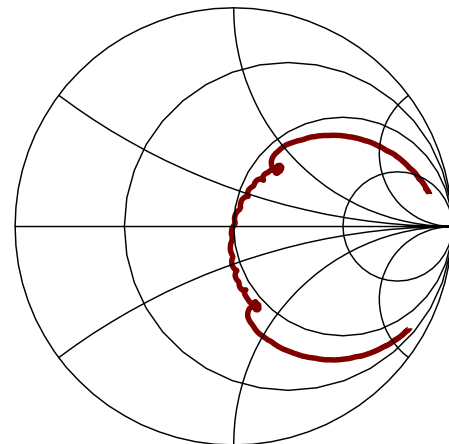


Horizontal: Frequency : 2 MHz/div
 Vertical from Top: Relative Magnitude : 10 dB/div
 Relative magnitude : 1 dB/div
 Phase : 5 deg/div

S11 (78.5 to 98.5 MHz)



S22 (78.5 to 98.5 MHz)



SPECIFICATION

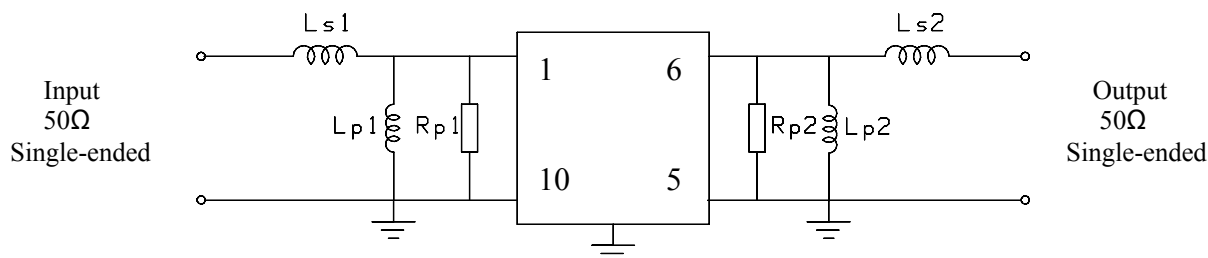
Parameter	Min	Typ	Max	Units
Center Frequency Fo	-	88.5	-	MHz
Ave Insertion Loss (Fo ± 1.46 MHz)	-	23.9	26.5	dB
Passband Width at -2 dB	3.7	3.81	-	MHz
Amplitude Ripple within Fo ± 1.46 MHz ¹	-	0.75	1.7	dB
Phase Linearity within Fo ± 1.825 MHz ²	-	4.5	6	deg p-p
Rejection @ ± 2.120 MHz ³	16	20	-	dB
Rejection @ ± 2.470 MHz ³	20	30	-	dB
Rejection @ ± 2.920 MHz ³	22	35	-	dB
Rejection @ ± 3.270 MHz ³	28	35	-	dB
Rejection @ ± 16.00 MHz ³	50	53	-	dB
Ultimate Rejection within Fo-30 to Fo-16 MHz	50	53	-	dB
Ultimate Rejection within Fo+16 to Fo+30 MHz	50	53	-	dB
Input Return Loss at Fo	12	20	-	dB
Output Return Loss at Fo	12	20	-	dB
Source and Load Impedance (single ended)	-	50	-	Ohm

- Notes:
1. At 85 °C and -40 °C extremes, due to a passband slope, max. ripple is 2.1 dB.
 2. At 85 °C and -40 °C extremes, the max. phase ripple is 7 deg.
 3. The stated dB level is relative to the insertion loss at Fo.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	+85	°C
Operating Temperature Range	-20	+60	°C
Input Power Level	-	10	dBm

MATCHING CIRCUIT

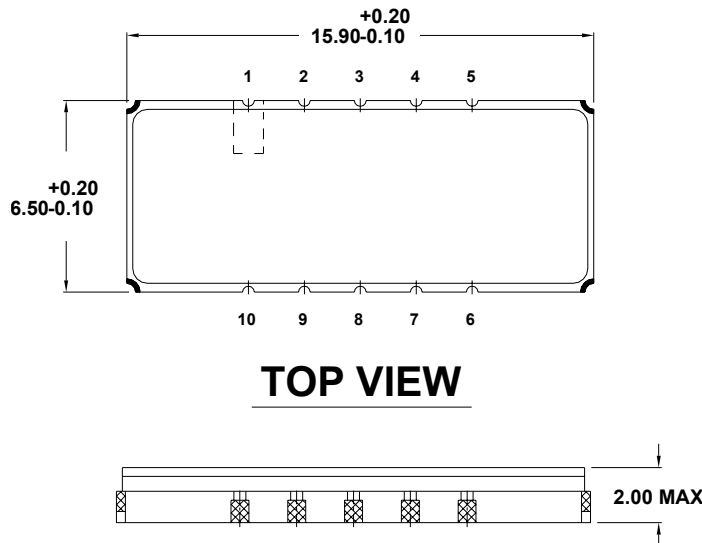


Typical component values: Ls1 = 680 nH Ls2 = 680 nH Rp1 = 15 KΩ
Minimum Q=40 Lp1 = 526 nH Lp2 = 458 nH Rp2 = 15 KΩ

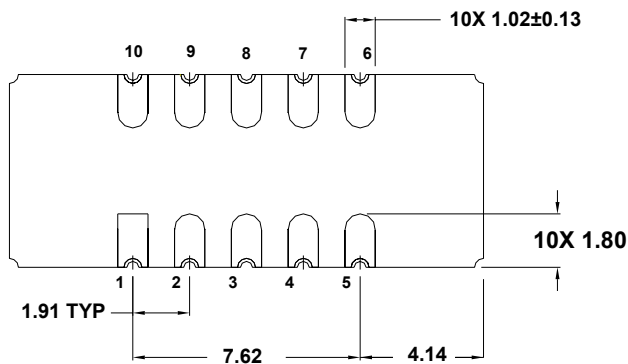
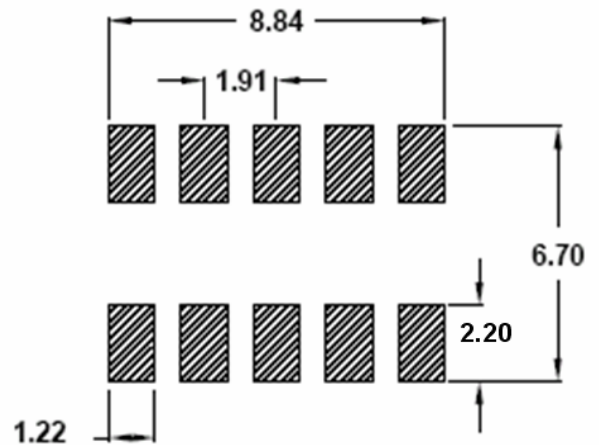
Notes:

1. Optimum values may differ from these when using a different fixture or board layout. The values shown here are intended as a guide only.
2. Required component tolerances – inductors ±1%, capacitors ±5%.

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



Units: mm

Dimensions are nominal in mm. All tolerances are ± 0.15 mm except those shown.

Pad Configuration:	
1	Input
10	Input Return
6	Output
5	Output Return
All Others	Ground

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

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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