



## SPECIFICATION

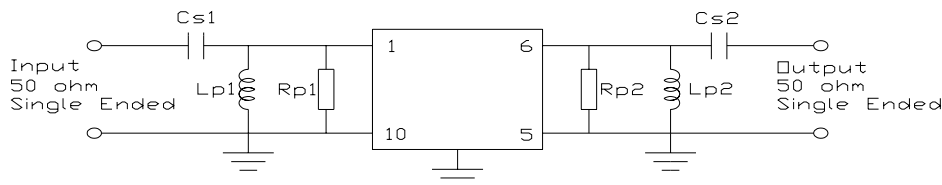
Parameter	Min	Typ	Max	Units
Center Frequency (Fc, 10 dB bandwidth)	-	88.50	-	MHz
Insertion Loss at Fc	-	19.5	22	dB
Passband Width at -1 dB <sup>1</sup>	1.25	1.33	-	MHz
Rejection at Fc +/- 0.625 MHz <sup>1</sup>	-	0.7	1	dB
Rejection at Fc +/- 0.89 MHz <sup>1</sup>	16	19	-	dB
Rejection at Fc +/- 1.24 MHz <sup>1</sup>	20	33	-	dB
Rejection at Fc +/- 1.69 MHz <sup>1</sup>	22	38	-	dB
Rejection at Fc +/- 2.04 MHz <sup>1</sup>	28	40	-	dB
Rejection at Fc - 15.5 MHz <sup>1</sup>	50	63	-	dB
Rejection at Fc + 15.5 MHz <sup>1</sup>	45	51	-	dB
Ultimate Rejection (Fc-30 to Fc-16 MHz) <sup>1</sup>	50	60	-	dB
Ultimate Rejection (Fc+16 to Fc+30 MHz) <sup>1</sup>	45	46	-	dB
Amplitude Ripple (Fc +/- 0.5 MHz)	-	0.5	1	dB p-p
Phase Linearity (Fc +/- 0.625 MHz)	-	6	10	deg p-p
Input Return Loss at Fc	10	20	-	dB
Output Return Loss at Fc	10	20	-	dB
System Source and Load Impedance	-	50	-	Ohm

Notes: 1. Stated dB level is relative to the insertion loss at Fc.

## MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	+85	°C
Operating Temperature Range	-40	+85	°C
Input Power Level	-	+13	dBm
DC Voltage Between Each Terminal	-	15	V

## MATCHING CIRCUIT



Component values (minimum inductor Q = 40):

$$Rp1=1.8 \text{ K}\Omega, \quad Lp1=135 \text{ nH}, \quad Cs1=9 \text{ pF}$$

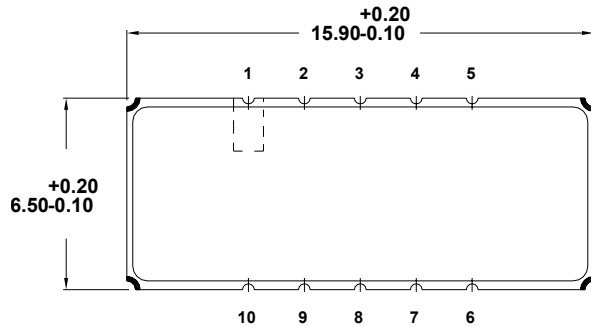
$$Rp2=1.8 \text{ K}\Omega, \quad Lp2=135 \text{ nH}, \quad Cs2=9 \text{ pF}$$

Notes:

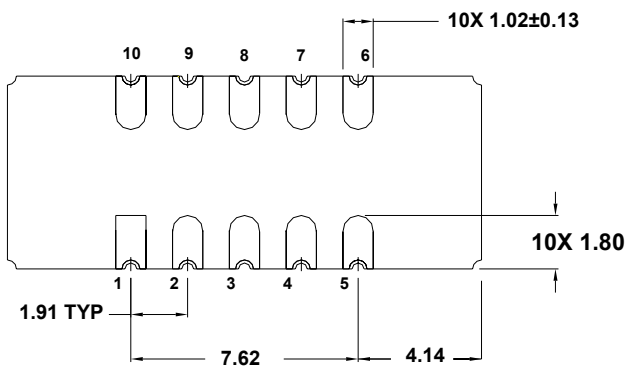
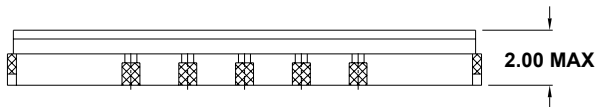
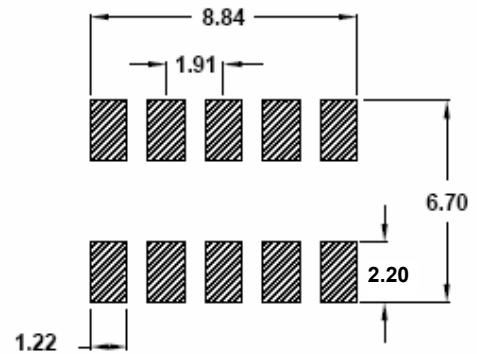
1. Component values shown above are used in the Micro Networks test fixture and are for guidance only.
2. 2% tolerance components or better are recommended.
3. Component values may change depending on board layout.

**PACKAGE OUTLINE AND RECOMMENDED PCB LAYOUT**

**PACKAGE INFORMATION**



**TOP VIEW**



**BOTTOM VIEW**

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

NOTES:  
DIMENSIONS SHOWN ARE ALL NOMINAL IN MILLIMETERS. ALL TOLERANCES ARE ±0.15MM EXCEPT OVERALL LENGTH AND WIDTH

Package Material:  
Body:  $Al_2O_3$  ceramic  
Lid: Kovar, Ni plated  
Terminations: Au plating 1  $\mu$ m min,  
over a 1.3-8.9  $\mu$ m Ni plating



All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.  
© 2010 All rights reserved.