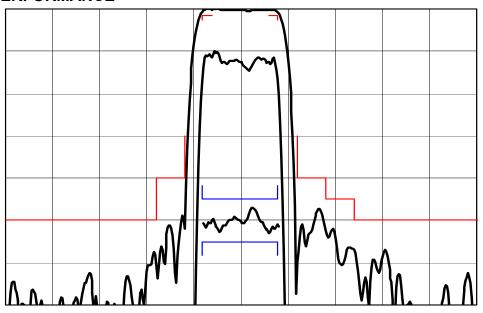


DESCRIPTION

- 69.99 MHz SAW bandpass filter with 0.8 MHz bandwidth.
- 73.3 x 20 mm DIP package.
- RoHS compliant.

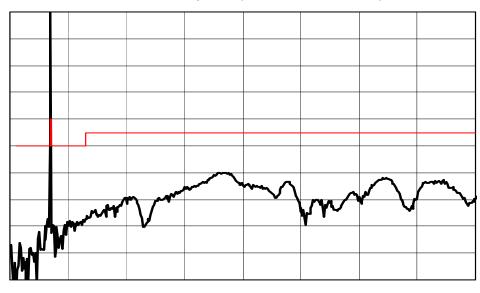
TYPICAL PERFORMANCE



Horizontal: Vertical from Top:

Frequency: 0.5 MHz/div
Relative Magnitude: 10 dB/div
Relative magnitude: 1 dB/div
Phase Linearity: 6 deg/div

Wideband Response (0-800 MHz, 10 dB/div)





SPECIFICATION

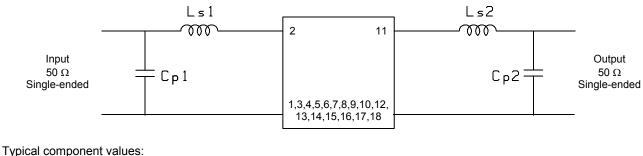
Parameter	Min	Тур	Max	Units
Center Frequency ¹	69.94	69.99	70.04	MHz
Insertion Loss ²	-	17.5	19	dB
1.5 dB Bandwidth ³	0.8	0.84	-	MHz
40 dB Bandwidth ³	-	1.15	1.2	MHz
Amplitude Ripple 4,5	-	0.4	1.0	dB p-p
Absolute Delay	-	8.82	-	μs
Phase Linearity ⁴	-	3.5	6	deg p-p
Rejection, 10 MHz to 69.09 MHz ³	50	56	-	dB
Rejection, 70.89 MHz to 71.19 MHz ³	45	51	-	dB
Rejection, 71.19 MHz to 130 MHz ³	50	57	-	dB
Rejection, 130 MHz to 800 MHz ³	45	56	-	dB
Input Return Loss 4, 6	10	15	-	dB
Output Return Loss 4,6	10	15	-	dB
Source and Load Impedance	-	50	-	Ω
Ambient Temperature	-	25	-	°C

- Notes: 1. Average of lower and upper 3dB points (3dB is relative to the insertion loss).
 - 2. Measured at the point in the passband where the loss is a minimum.
 - 3. All stated dB levels are relative to the insertion loss.
 - 4. Over 0.8 MHz bandwidth.
 - 5. Defined as maximum level minimum level over the given bandwidth, excluding the band edges.
 - 6. When matched externally, as shown below.

MAXIMUM RATINGS

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

MATCHING CIRCUIT



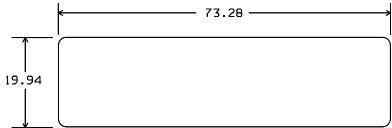
(Minimum inductor Q = 40) 150 Ls1 nΗ Ls2 = 150 nΗ Cp2 = Cp1 = 100 рF 120 pF

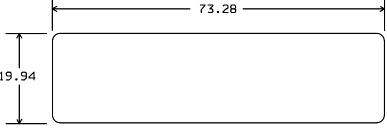
Notes:

- 1. Required component tolerances: inductors +/-2%, capacitors +/-5%.
- 2. Component values shown are for guidance only and may change depending on board layout.



PACKAGE OUTLINE





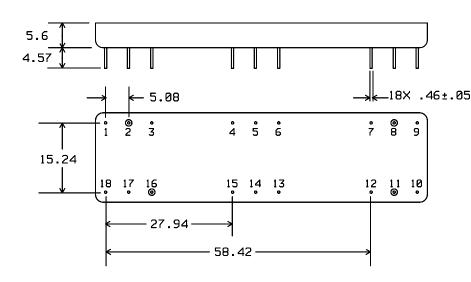


Tolerances are ± 0.15 mm except for the overall length and width, which are nominal values.

Pad Configuration:

Input: 2 Output: 11

Ground: All other pins



ISO 9001 Registered

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