

HD34388

MEMS Band Pass Filter

Features:

- Pass Band : 3.0 ~ 5.0 GHz
- Insertion Loss : 2.5dB
- Size : 9.0 X 7.4 X 0.42mm

Absolute Maximum Ratings

- Max. Input Power : +35dBm
- Storage Temperature : -55 ~ +85Deg.C
- Operating Temperature : -55 ~ +125Deg.C



ELECTROSTATIC SENSITIVE DEVICE OBSERVE HANDLING PRECAUTIONS

Electrical Specifications (T_A=+25Deg.C, 50Ω system)

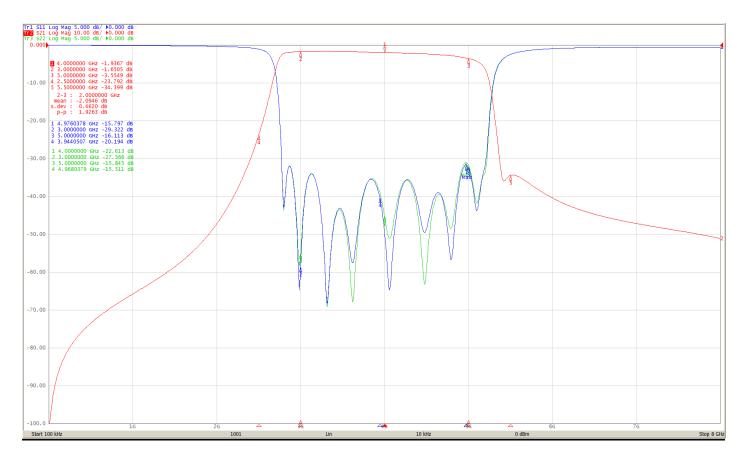
Parameter		Min.Value	Typical Value	Max.Value	Unit
Frequency Range		3.0 ~ 5.0			GHz
Insertion Loss (Fc)		-	1.93	2.5	dB
Ripple		-	1.92	2.5	dB
Attenuation	2.5GHz	20.0	23.79	-	dB
	5.5GHz	30.0	34.39	-	dB
Input Return Loss		12.0	15.79	-	dB
Output Return loss		12.0	15.51	-	dB



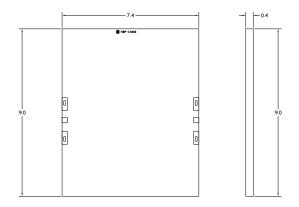
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Simulation Data



<u>Size</u>



Remarks:Unit : mm, Tolerance : ±0.25mm

1. Chip bottom is gold plated and grounded.

2. Bonding pressure points are gold plated.

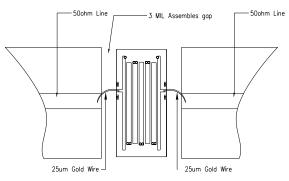


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Applications

1. Assembly and Bonding Diagram.



Assembly Diagram

- 2. The chip is back-metalized and can be die mounted with AuSn eutectic performs or with electrically conductive epoxy (for example ME8456).
- 3. The die should be assembled on carriers like Kovar or Mu-Cu which have same Coefficient of thermal expansion. (2.9ppm/°C) with Silicon, thickness 0.2mm max.
- 4. Handle the chips in a clean environment. DO NOT attempt to clean the chip using liquid cleaning systems.
- 5. Handle the chip along the edges with a vacuum collet or with a sharp pair of bent tweezers.