

HD34392

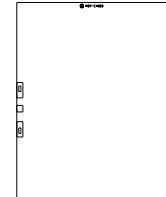
MEMS Band Pass Filter

Features:

- Pass Band : 3.0 ~ 5.0 GHz
- Insertion Loss : 2.2dB
- 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



STRUCTURE

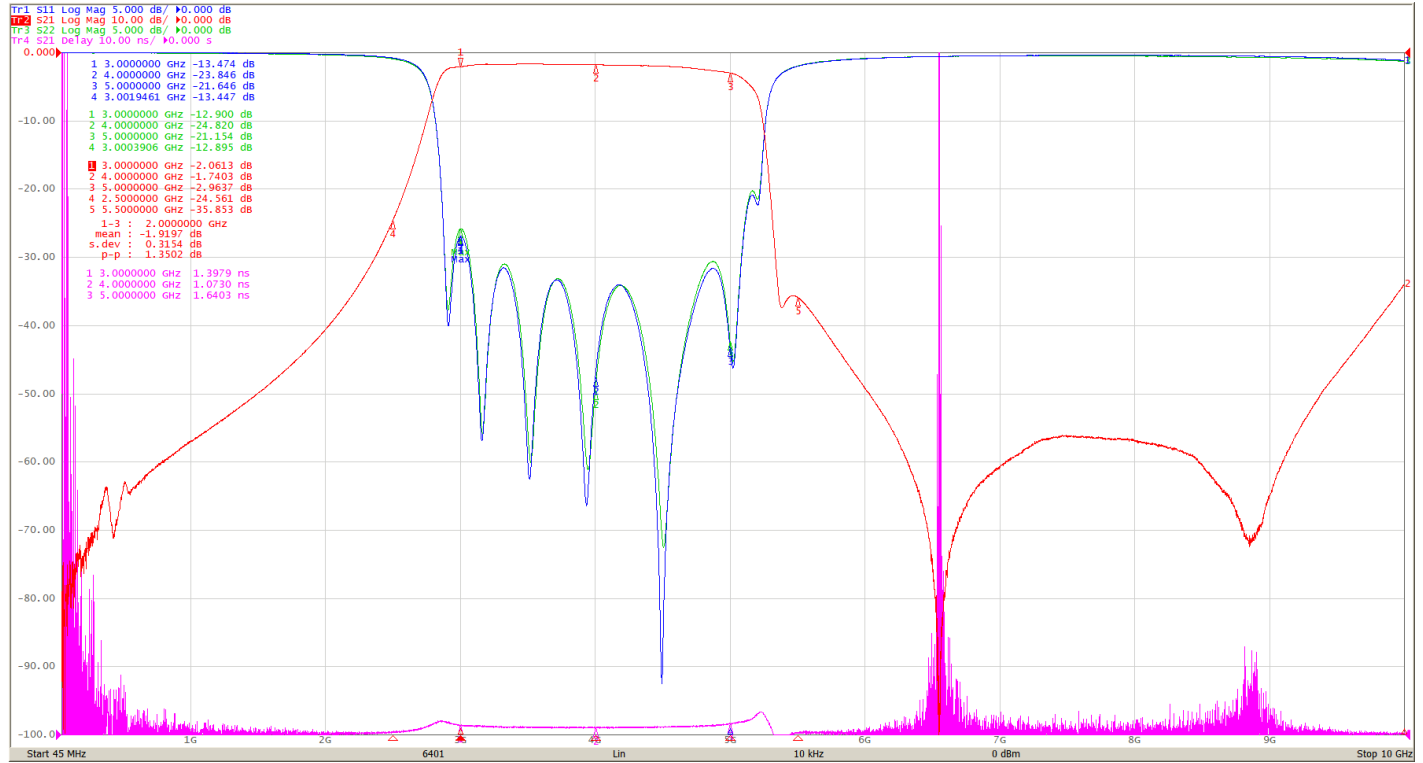
Electrical Specifications (TA=+25Deg.C, 50Ω system)

Parameter	Min.Value	Typical Value	Max.Value	Unit	
Frequency Range	3.0 ~ 5.0			GHz	
Insertion Loss (Fc)	-	1.74	2.2	dB	
Ripple	-	1.35	2.0	dB	
Attenuation	2.5GHz	20.0	24.56	-	dB
	5.5GHz	30.0	35.85	-	dB
Input Return Loss	12.0	13.44	-	dB	
Output Return loss	12.0	12.90	-	dB	
Group Delay	-	1.64	2.5	ns	

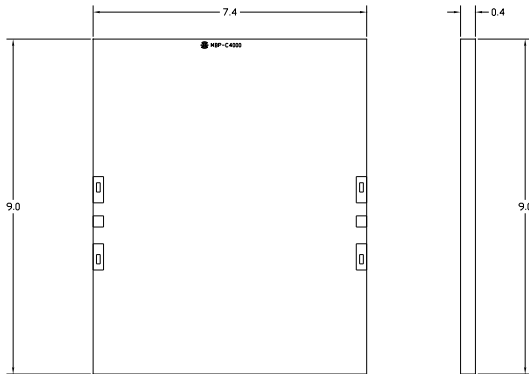
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Sample Data



Size



Remarks: Unit : mm, Tolerance : ± 0.25 mm
 1. Chip bottom is gold plated and grounded.
 2. Bonding pressure points are gold plated.

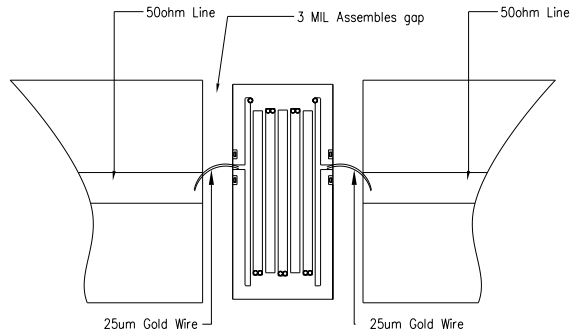
Applications

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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.