

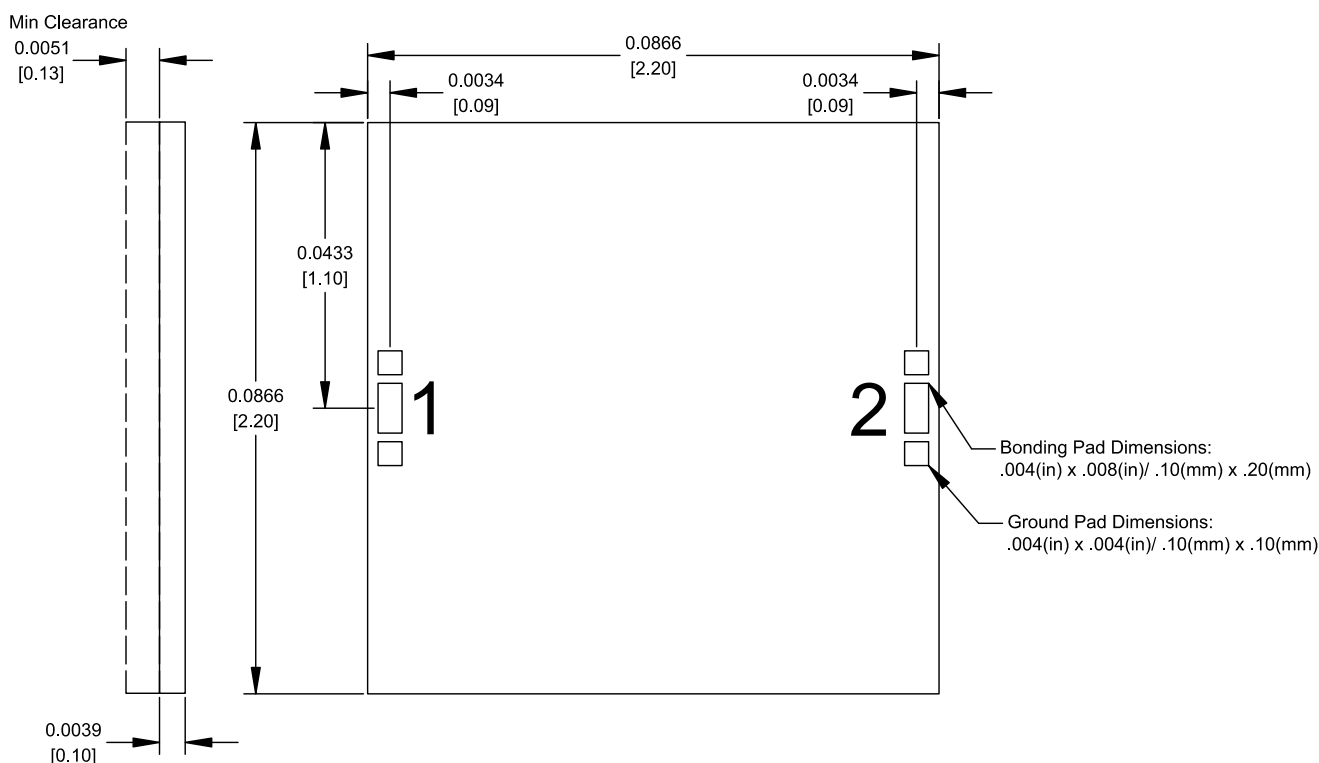
Features

- Excellent Return Loss
- High Stop Band Suppression
- Wide Stop Band with Fast Roll-Off
- Dimensions: 2.20 X 2.20mm

Functional Block Diagram

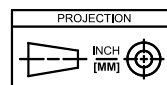





Outline Drawing



Notes:

1. CH substrate is .004 Thick GaAs.
2. I/O trace is 5 microns Au. Ground is 4 microns Au.
3. Tolerance for X, Y dimensions is ± 0.002 in.
Tolerance for Z dimension is ± 0.0005 in.
Tolerance for pad location is ± 0.0001 in.



Port	Function	Description Equivalent Circuit	Equivalent Circuit for Package
Pad	Ground	CH package ground path is provided through the substrate and ground bond pads.	
Port 1	Input/Output	Port 1 is DC open to ground for the CH package.	
Port 2	Input/Output	Port 2 is DC open to ground for the CH package.	

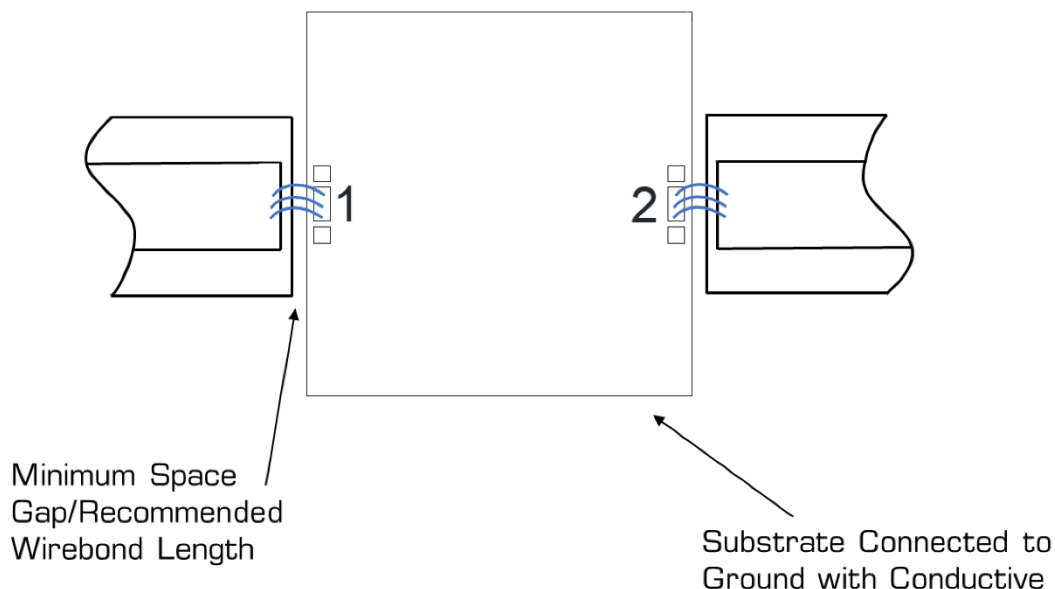
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For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

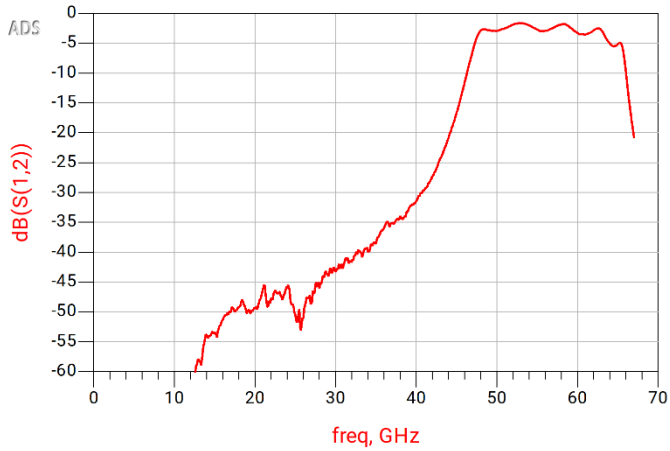
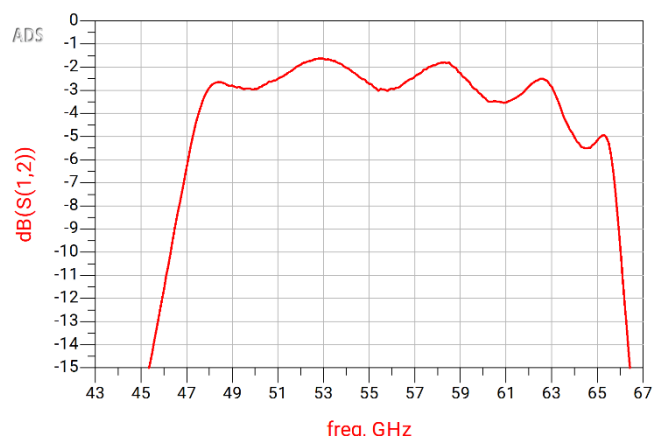
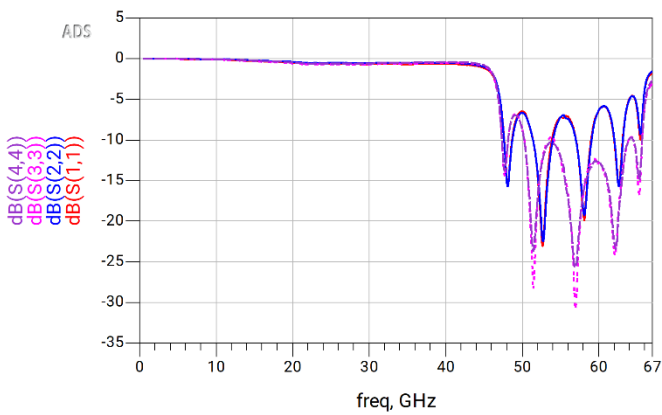
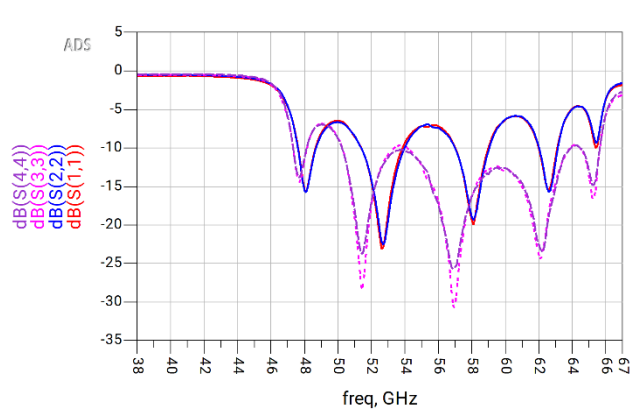
Bonding Diagram



Electrical Specifications at TA=+25°C

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
1dBc Passband Low Frequency	-	-	-	-	46.5	-	GHz
1dBc Passband High Frequency	-	-	-	-	63.5	-	GHz
3dBc Passband Low Frequency	-	-	-	-	45.8	-	GHz
3dBc Passband High Frequency	-	-	-	-	64.9	-	GHz
Passband Return Loss	-	48	63.5	-	15	-	dB
Stopband Suppression	-	0	29.5	40	67	-	dB
Group Delay	-	-	-	-	115	-	ps
Impedance	-	-	-	-	50	-	Ω
Center Frequency, fo	-	-	-	-	55.6	-	GHz
Insertion Loss @ Fo	-	55.6	55.6	-	1.6	-	dB
Operating Temperature	-	-	-	-55	-	100	°C
Storage Temperature	-	-	-	-65	-	125	°C

Typical Performance Plots

Insertion Loss (dB)

Insertion Loss (dB)

Return Loss (dB)

Return Loss (dB)

Group Delay (s)
