

H3-MAPD-9918

5-1000MHz 75Ω 2 Way Power Divider

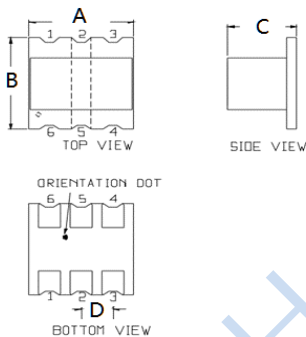
APPLICATIONS

- Ideally suitable for CATV applications.

FEATURES

- Surface mount
- 2 Way 0 degree
- 260°C reflow compatible
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS

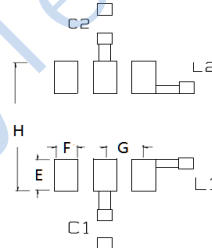


A	B	C
4.30	4.30	3.00
D		
1.27		

Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

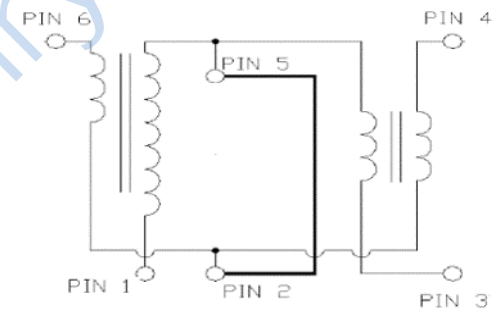
PCB LAYOUT



Suggest:
C1,C2=0.5pF
L1,L2=8.2nH
R1=240Ω

E	F	G
1.40	0.76	1.27
H		
4.83		

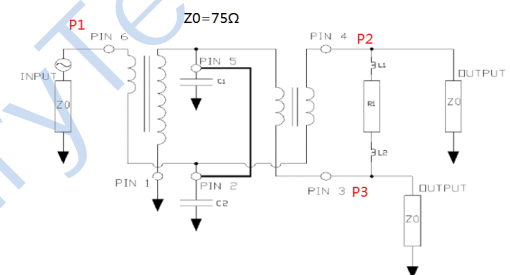
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Ground
2	External 0.5 pF Capacitor
3	Output 2
4	Output 1
5	External 0.5 pF Capacitor
6	Input

APPLICATION & TEST CIRCUIT



Suggest: C1,C2=0.5pF
L1,L2=8.2nH
R1=240Ω

ELECTRICAL SPECIFICATIONS@25°C:

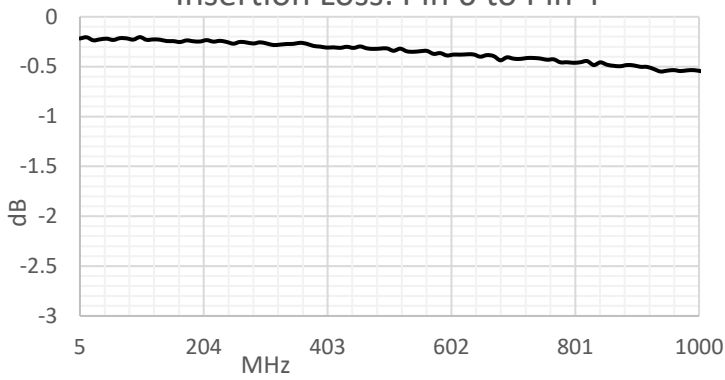
Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0 (P1 / P2 / P3)			75 / 75/ 75		Ohm
Insertion Loss(Above 3dB)	5-1000MHZ		0.6	1.0	dB
Input Return Loss	5-1000MHZ	20.0	39.0		dB
Output Return Loss	5-1000MHZ	18.0	28.0		dB
Isolation	5-1000MHZ	26.0	30.0		dB
Amplitude Balance	5-1000MHZ		0.3	0.6	dB
Phase Balance	5-1000MHZ		0.8	4	Deg

ABSOLUTE MAXIMUM RATINGS

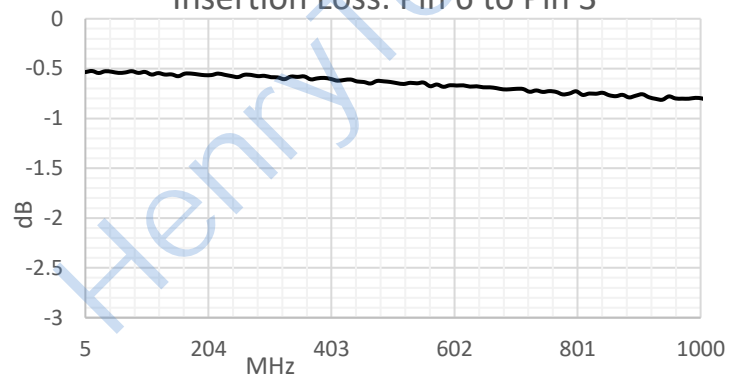
Parameter	Value
Input RF Power	1W Max
Internal Load Dissipation	0.125W Max
Operating Temperature Range	-40 to 85°C

TEST CURVE

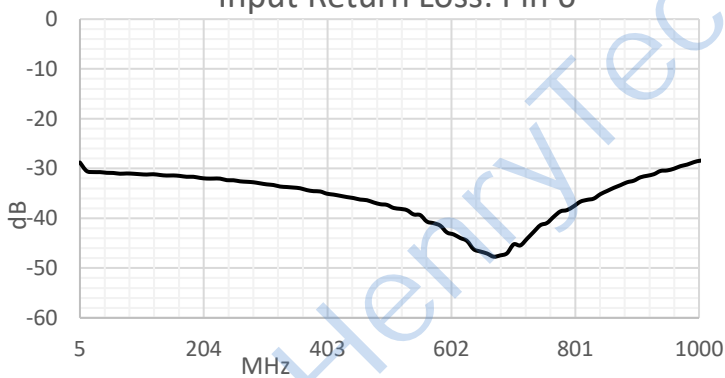
Insertion Loss: Pin 6 to Pin 4



Insertion Loss: Pin 6 to Pin 3



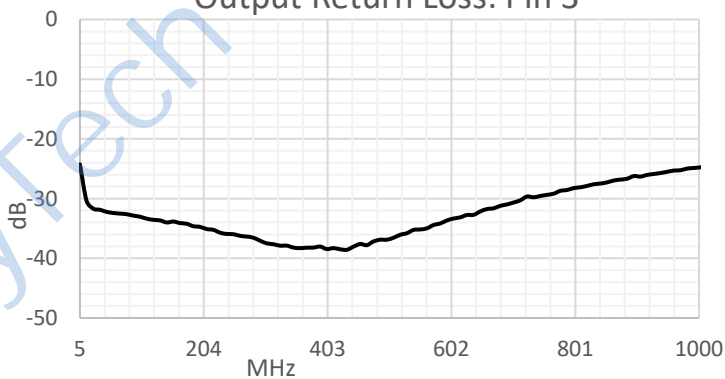
Input Return Loss: Pin 6



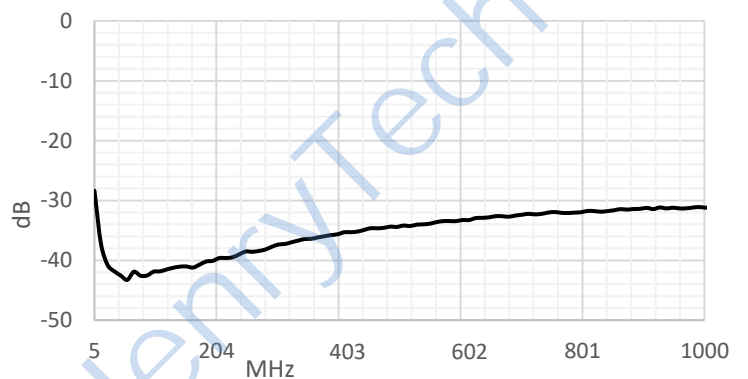
Output Return Loss: Pin 4



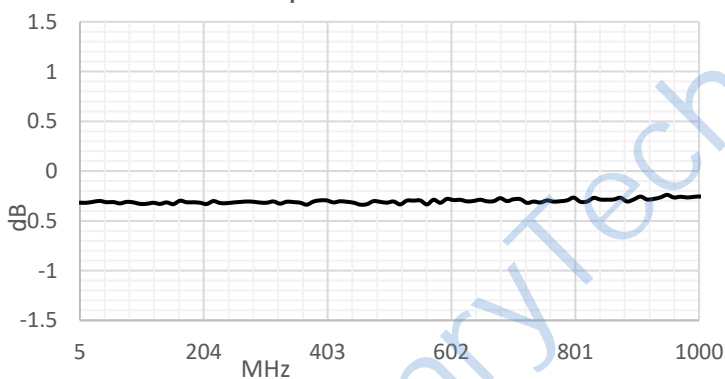
Output Return Loss: Pin 3



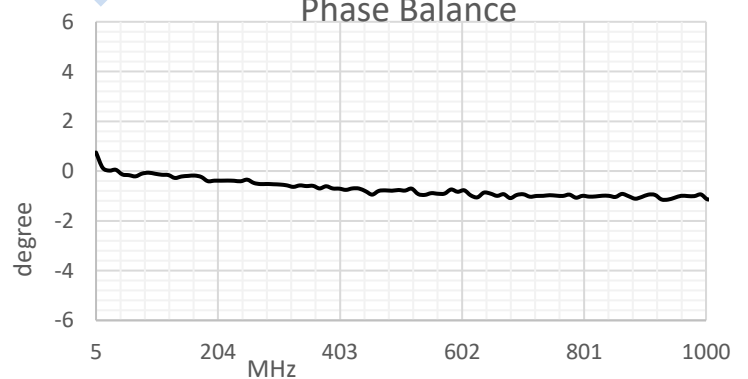
Isolation



Amplitude Balance



Phase Balance



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