

## H3-MAPD-011002

5-1600MHz 75Ω 2 Way Power Divider

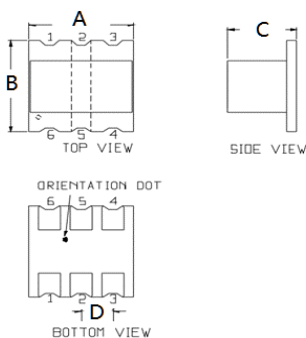
### APPLICATIONS

- 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

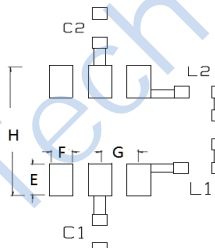


A	B	C
4.30	4.30	3.00
D		
1.27		

Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

### PCB LAYOUT



Suggest:

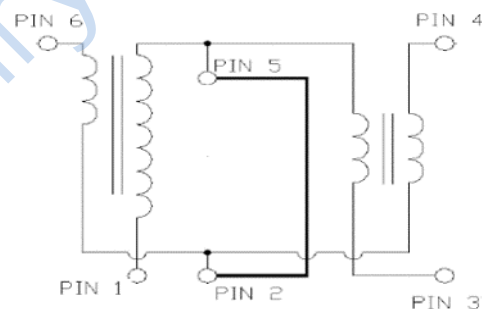
C1,C2=0.5pF

R1 L1,L2=8.2nH

R1=240Ω

E	F	G
1.40	0.76	1.27
H		
4.83		

### FUNCTIONAL SCHEMATIC



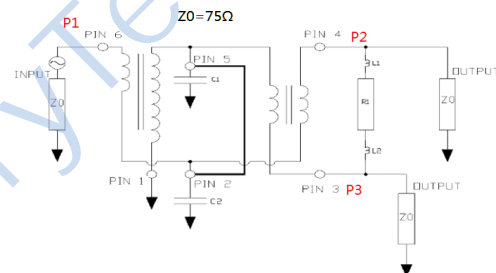
### PIN CONFIGURATION

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

### 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 1 (pin6-pin4)	5 - 500 MHz		0.3	0.5	dB
	500-1600 MHz		1.2	1.7	dB
Insertion Loss 2 (pin6-pin3)	5-300MHz		0.4	0.5	dB
	300-1200MHz		1.1	1.7	dB
	1200-1600MHz		2.1	2.7	dB
Input Return Loss	5-300MHz	20.0	26.0		dB
	300-1200MHz	15.0	17.0		dB
	1200-1600MHz	9.0	12.0		dB
Output Return Loss1 (pin4)	5 - 870 MHz	20.0	24.0		dB
	870-1600 MHz	12.0	16.0		dB
Output Return Loss2 (pin3)	5-300MHz	20.0	25.0		dB
	300-1200MHz	15.0	19.0		dB
	1200-1600MHz	11.0	13.0		dB
Isolation	5-300MHz	30.0	34.0		dB
	300-1200MHz	23.0	30.0		dB
	1200-1600MHz	20.0	27.0		dB
Amplitude Balance	5-500MHz		0.2	0.3	dB
	500-1200MHz		0.3	0.6	dB
	1200-1600MHz		0.7	1.3	dB
Phase Balance	5 - 870 MHz		0.7	1	Deg
	870-1600 MHz		2.3	5.5	Deg

### APPLICATION & TEST CIRCUIT



Suggest: C1,C2=0.5pF

L1,L2=8.2nH

R1=240Ω

### ABSOLUTE MAXIMUM RATINGS

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

Tel: +86-28-85589664

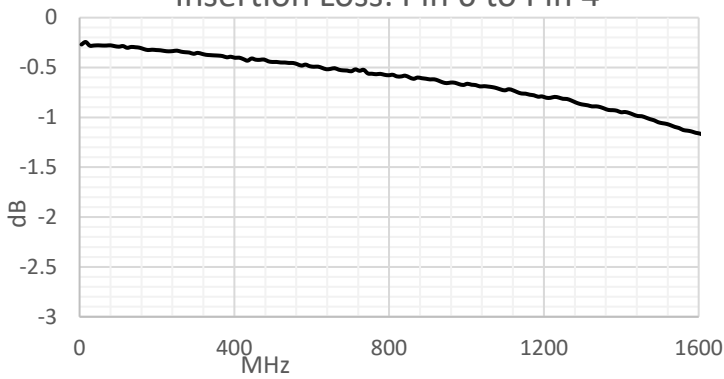
E-mail: mr\_li@henglitaitech.com

Web: www.hltchips.com

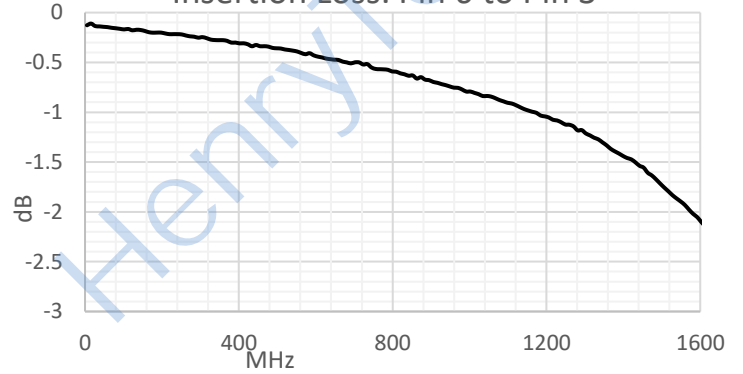
Address: No.198 Tianqin East Street, Gaoxin West District, Chengdu City

## TEST CURVE

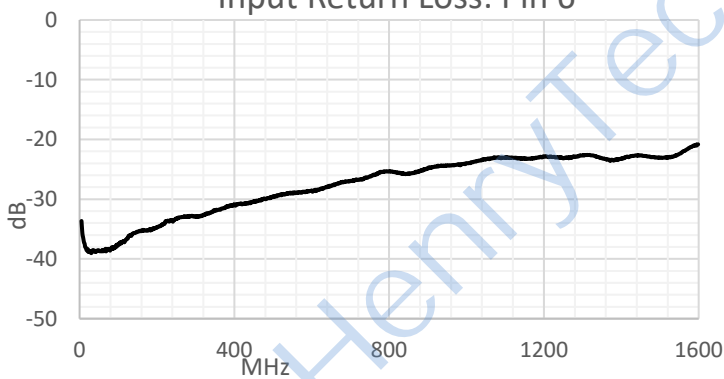
Insertion Loss: Pin 6 to Pin 4



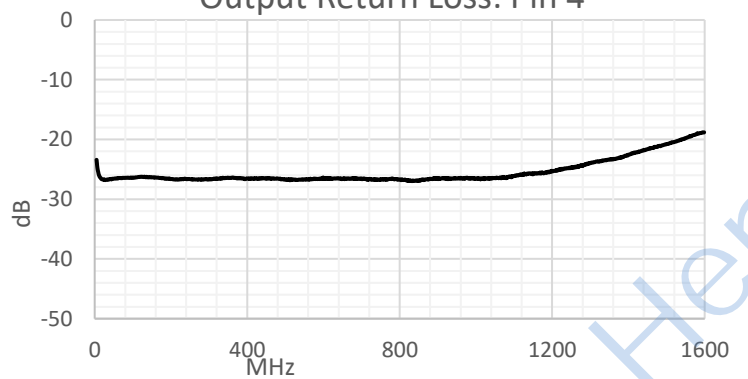
Insertion Loss: Pin 6 to Pin 3



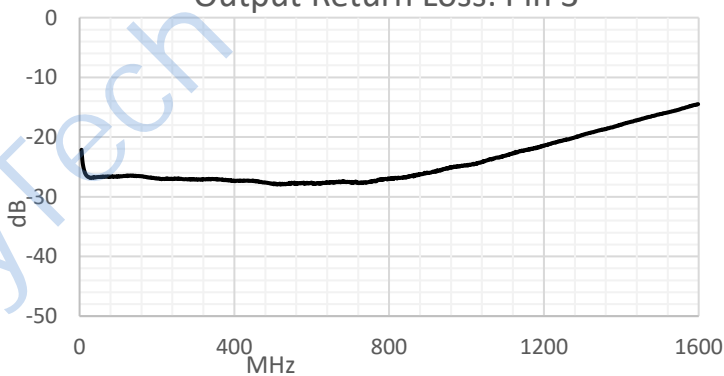
Input Return Loss: Pin 6



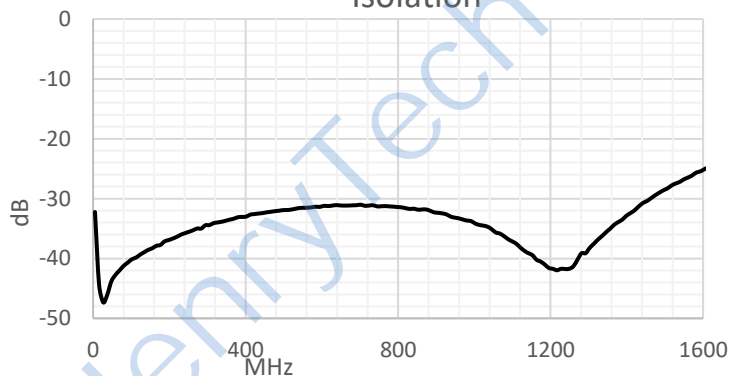
Output Return Loss: Pin 4



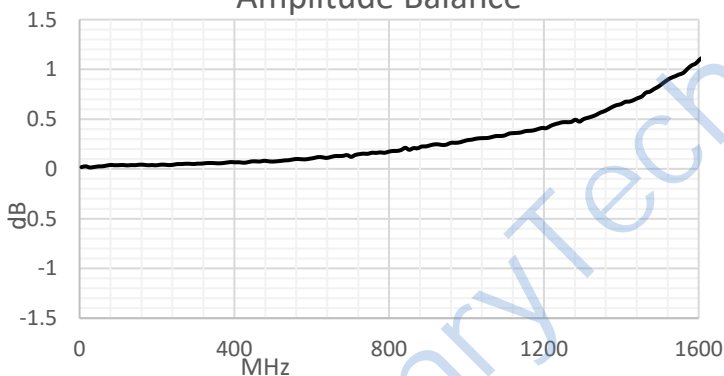
Output Return Loss: Pin 3



Isolation



Amplitude Balance



Phase Balance

