

H3-MACP-011038

5-1225MHz 75Ω 16dB Coupler

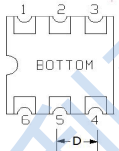
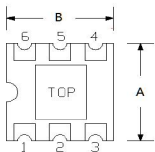
APPLICATIONS

Ideally suited for CATV Broadband applications.

FEATURES

- Surface mount
- 16dB Coupler
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS

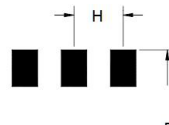


A	B	C
6.00	6.00	2.95
D		
2.00		

Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

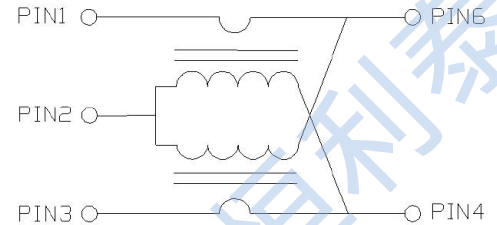
Land Pattern



FOOTPRINT FOR PCB DESIGN

E	F	G
7.40	1.70	1.20
H		
2.00		

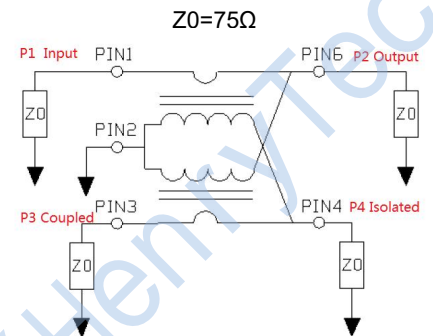
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Input
2	Ground
3	Coupled
4	Isolated
5	Not Connected
6	Output

APPLICATION & TEST CIRCUIT



ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0(P1/P2/P3/P4)			75/75/75/75		Ohm
Coupling (pin1-3)	5 - 1225MHz	16.5	16.0	15.5	dB
Main Line Loss (pin1-6)	5 - 1000 MHz		0.7	0.8	dB
	1000 - 1225 MHz		0.9	1	dB
Input Return Loss (pin1)	5 - 1000 MHz	19	21		dB
	1000 - 1225 MHz	18	20		dB
Output Return Loss (pin6)	5 - 1000 MHz	18	20		dB
	1000 - 1225 MHz	16	18		dB
Coupled Return Loss (pin3)	5 - 1000 MHz	18	21		dB
	1000 - 1225 MHz	16	20		dB
Isolation (pin1-4)	5 - 1225 MHz	30	35		dB

ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input RF Power	1.5W Max
DC Current	500mA Max
Operating Temperature Range	-40 to 85°C

Tel: +86-28-85589664

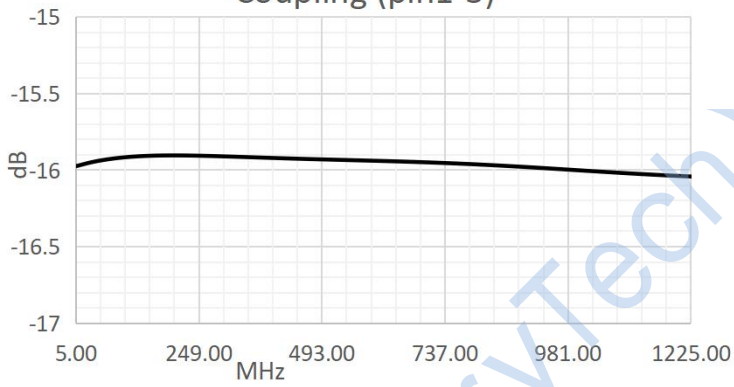
E-mail: mr_li@henglitaitech.com

Web: www.hltchips.com

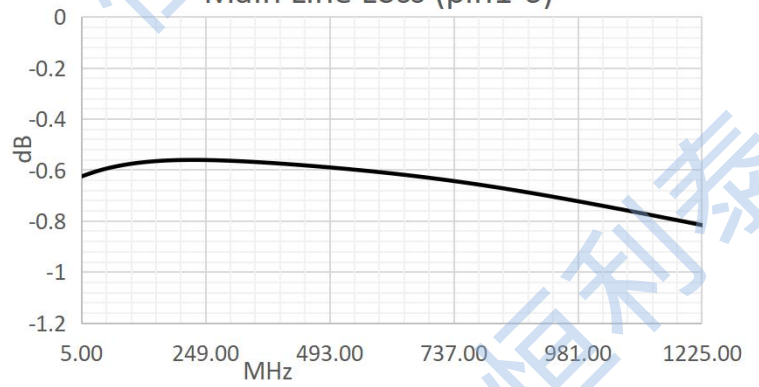
Address: Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No. 50, Shuxi Road, Jinniu District, Chengdu City

TEST CURVE

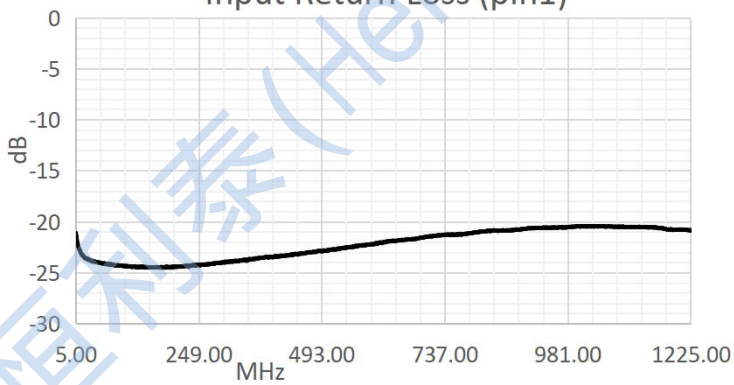
Coupling (pin1-3)



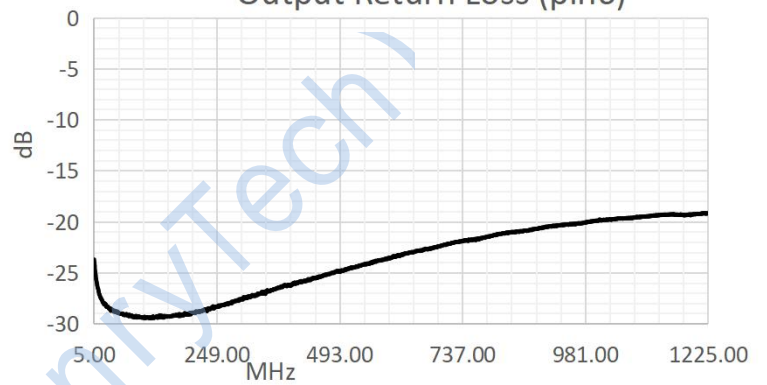
Main Line Loss (pin1-6)



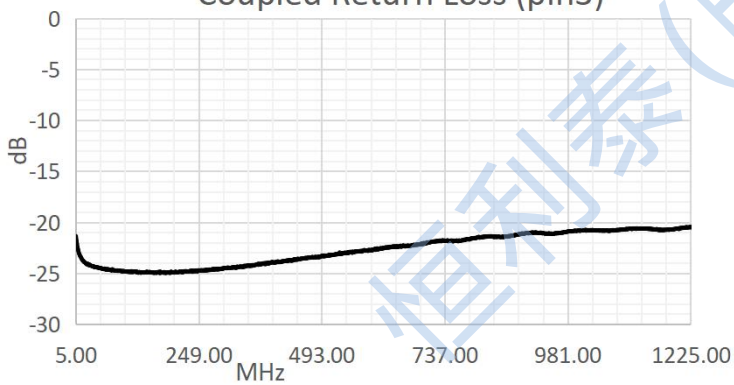
Input Return Loss (pin1)



Output Return Loss (pin6)



Coupled Return Loss (pin3)



Isolation (pin1-4)

