

H3-5-1000M-50-12

5-1000MHz 50Ω 12dB Coupler

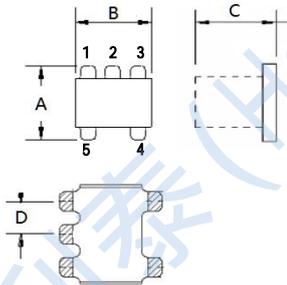
APPLICATIONS

• Ideally suited for CATV Broadband applications.

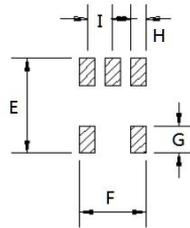
FEATURES

- Surface mount
- 12dB Coupler
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS



Land Pattern



A	B	C
3.81	3.81	2.70
D		
1.27		

E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

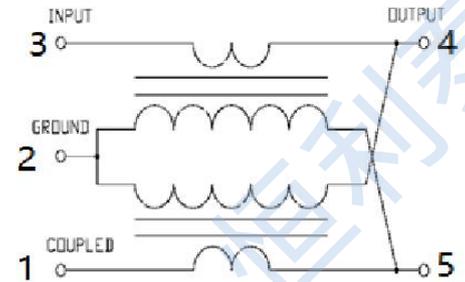
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0			50		Ohm
Coupling	5 - 1000 MHz	11.4	12.0	13.0	dB
Coupling Flatness	5 - 1000 MHz			1.0	dB
Main Line Loss	5 - 1000 MHz		0.9	1.5	dB
Input Return Loss	5 - 1000 MHz	14	18		dB
Output Return Loss	5 - 1000 MHz	15	22		dB
Coupled Return Loss	5 - 1000 MHz	12	15		dB
Isolation	5 - 1000 MHz	16	23		dB

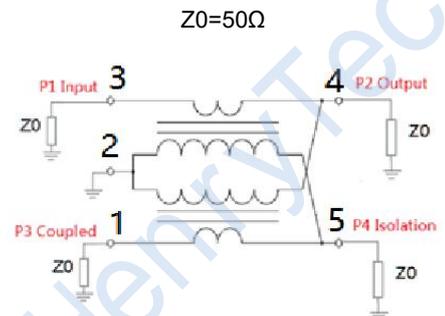
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Coupled
2	Ground
3	Input
4	Output
5	External 50 Ohm

APPLICATION & TEST CIRCUIT



ABSOLUTE MAXIMUM RATINGS

Parameter	Value
RF Power	250 mW Max
DC Current	30mA Max
Operating Temperature Range	-40 to 85°C
Storage Temperature	-40 to 85°C

Tel: +86-28-85589664

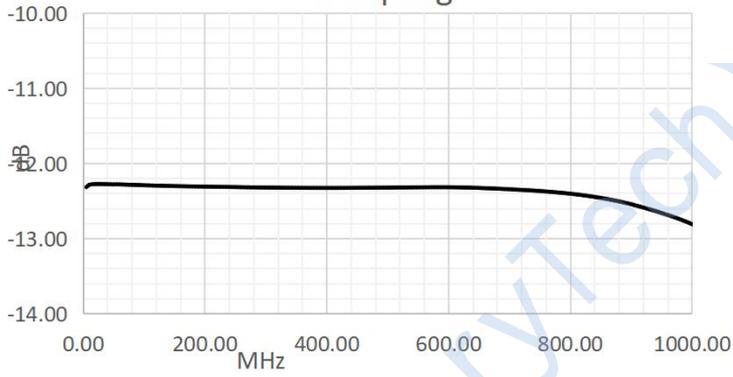
E-mail: mr_li@henglitaitech.com

Web: www.hltchips.com

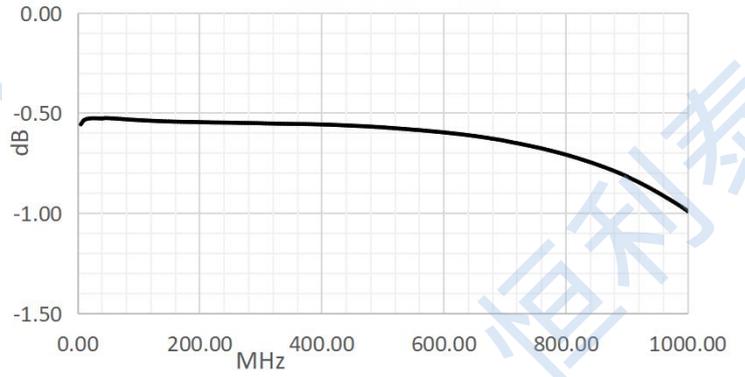
Address: No.198 Tianqin East Street, Gaoxin West District, Chengdu City

TEST CURVE

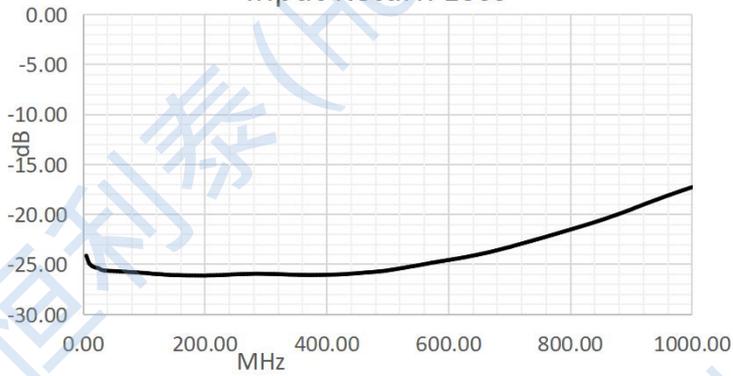
Coupling



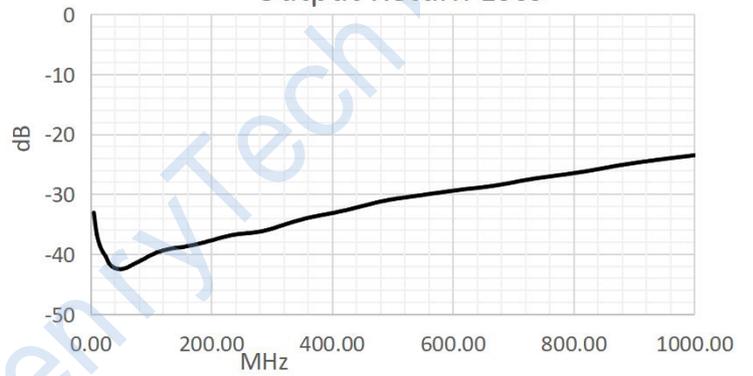
Main Line Loss



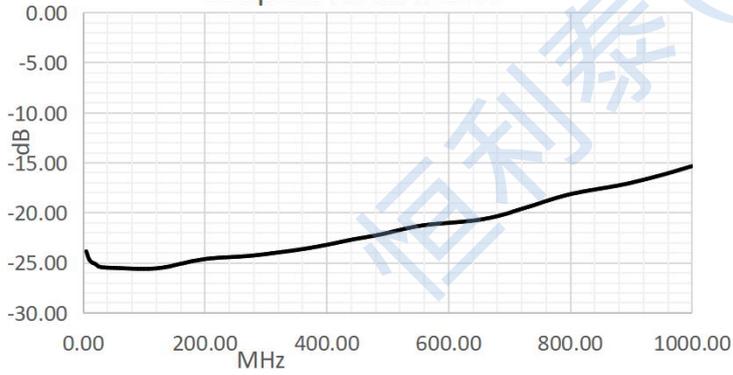
Input Return Loss



Output Return Loss



Coupled Return Loss



Isolation

