

H3-TCD-12-222X+

5-1800MHz 75Ω 12dB Coupler

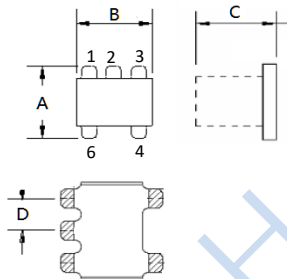
APPLICATIONS

Ideally suited for CATV Broadband, VHF/UHF and cellular applications.

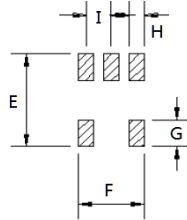
FEATURES

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

DIMENSIONS



Land Pattern



A	B	C
3.81	3.81	2.90
D		
1.27		

E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

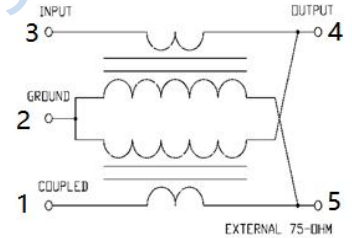
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0			75		Ohm
Mainline Loss	5-1000MHz		1.1	1.5	dB
	1000-1800MHz		1.5	2.0	dB
Coupling	5-1800MHz	11.8	12.6	13.4	dB
Return Loss (Input)	5-1800MHz	18.0	21.0		dB
Return Loss (Output)	5-1800MHz	18.0	25.0		dB
Return Loss (Coupling)	5-1800MHz	18.0	24.0		dB
Isolation	5-1000MHz	23.0	25.0		dB
	1000-1800MHz	18.0	23.0		dB

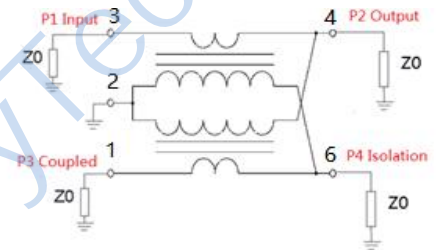
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Coupled
2	Ground
3	Input
4	Output
6	Isolated port (75 OHM termination)

APPLICATION & TEST CIRCUIT



ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input RF Power	0.5W Max
DC Current	500mA Max
Operating Temperature Range	-40 to 125°C

Tel: +86-28-85589664

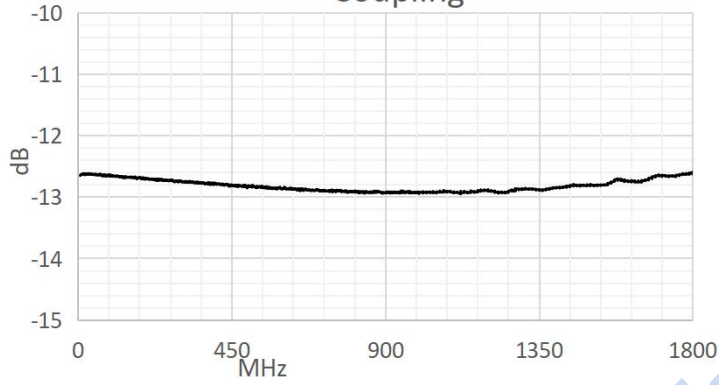
E-mail: mr_li@henglitaitech.com

Web: www.hltchips.com

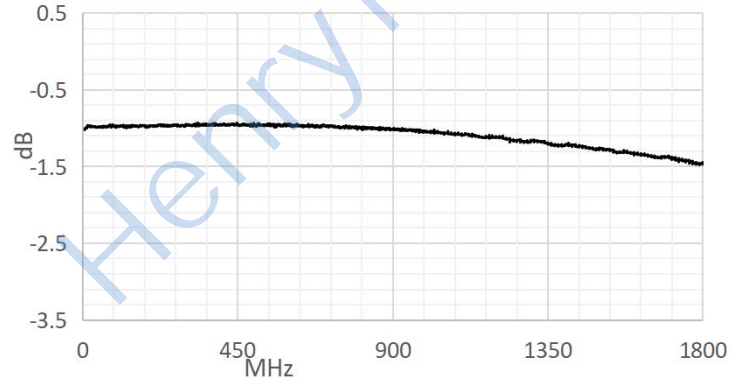
Address: No.198 Tianqin East Street, Gaoxin West District, Chengdu City

TEST CURVE

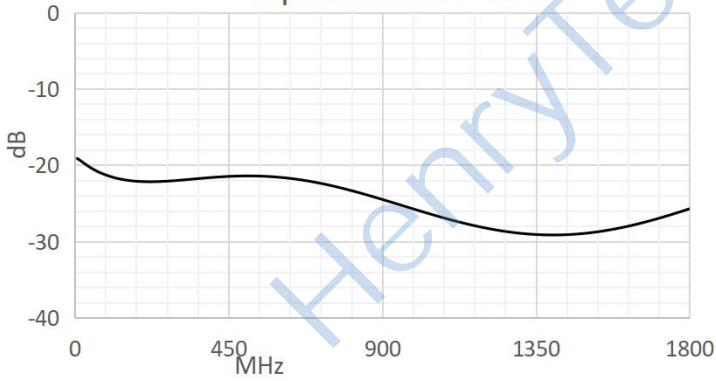
Coupling



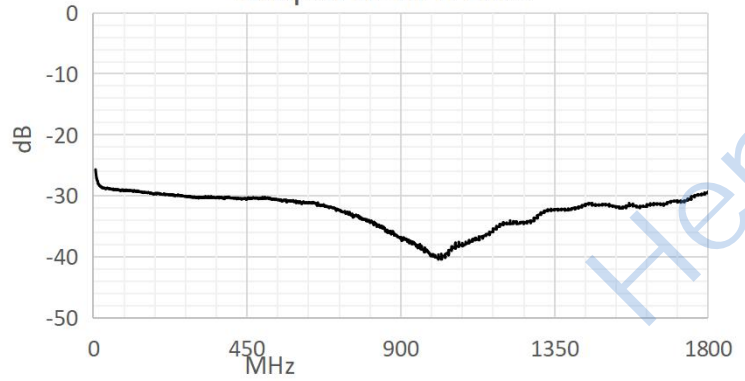
Main Line Loss



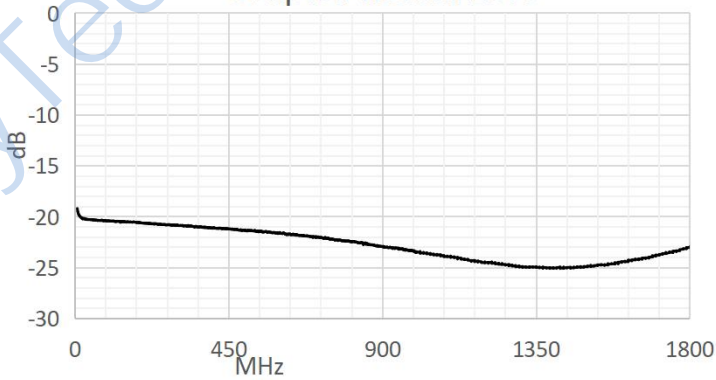
Input Return Loss



Output Return Loss



Coupled Return Loss



Isolation

