



H3-RDC-20-232-75X+

5-2350MHz 75Ω 20dB Coupler

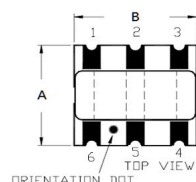
• APPLICATIONS

- Ideally suited for CATV Broadband applications.

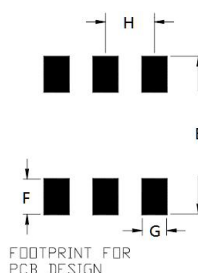
• FEATURES

- Surface mount
- 20dB Coupler
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS



Land Pattern



A	B	C
6.35	7.11	3.5Max
D		
2.54		

E	F	G
7.87	1.78	1.27
H		
2.54		

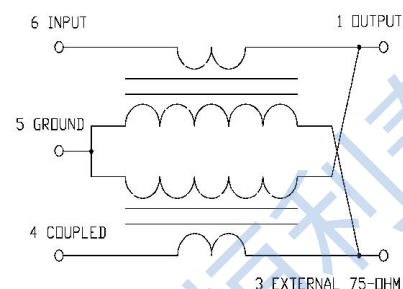
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0(P1/P2/P3/P4)			75/75/75/75		Ohm
Coupling (pin6-4)	5 - 1218 MHz		21±1.5		dB
	40-1800 MHz		20.5±1.0		dB
	40-2350 MHz		20.2±1.3		dB
Main Line Loss (pin6-1)	5 MHz		0.8	1.3	dB
	40 MHz		0.5	0.9	dB
	1218 MHz		0.5	1.0	dB
	1800 MHz		0.7	1.1	dB
	2350 MHz		0.9	1.4	dB
Input Return Loss (pin6)	5 - 40 MHz	10	18		dB
	40 - 1800 MHz	14	23		dB
	1800 - 2350 MHz	12	21		dB
Output Return Loss (pin1)	5 - 40 MHz	11	17		dB
	40 - 1800 MHz	19	22		dB
	1800 - 2350 MHz	15	18		dB
Coupled Return Loss (pin4)	5 - 40 MHz	10	18		dB
	40 - 1800 MHz	12	19		dB
	1800 - 2350 MHz	10	16		dB
Directivity (pin6-3)	5 MHz	8	16		dB
	40 MHz	18	28		dB
	1218 MHz	15	23		dB
	1800 MHz	10	18		dB
	2350 MHz	7	17		dB

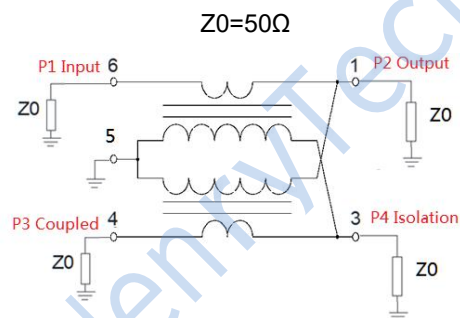
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Output
2	Not Connected
3	External 75 Ohm
4	Coupled
5	Ground
6	Input

APPLICATION & TEST CIRCUIT



ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input RF Power	1W Max
Storage Temperature Range	-55 to 100°C
Operating Temperature Range	-40 to 85°C

Tel: +86-28-85589664

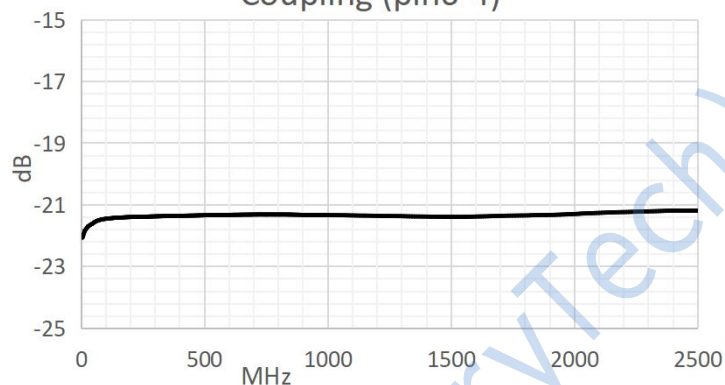
E-mail: mr_li@henglitaitech.com

Web: www.hltchips.com

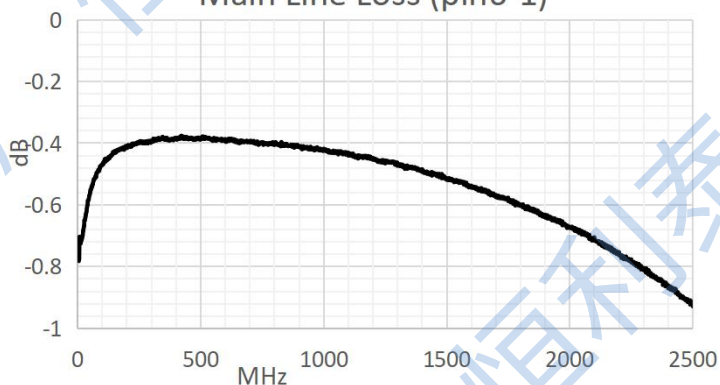
Address: Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No. 50, Shuxi Road, Jinniu District, Chengdu City

TEST CURVE

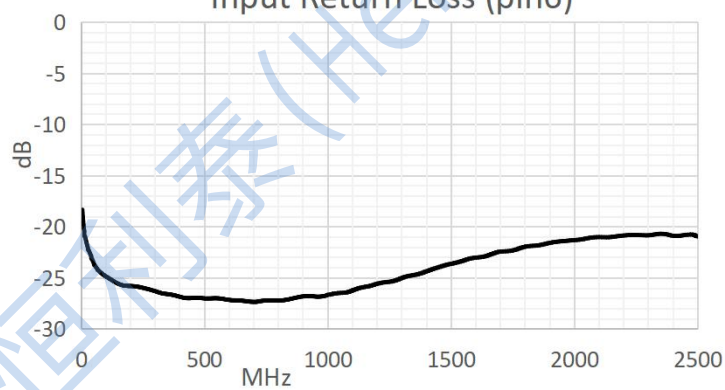
Coupling (pin6-4)



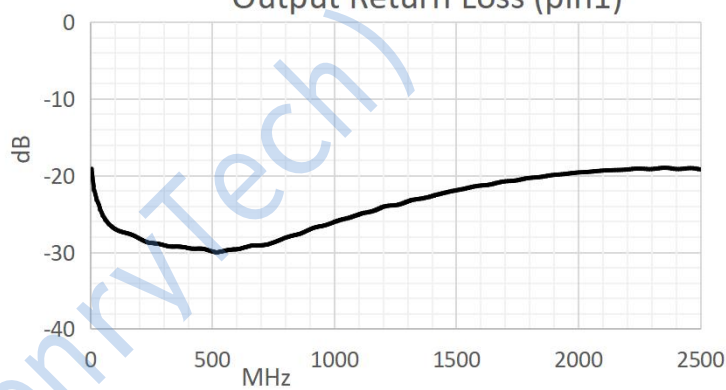
Main Line Loss (pin6-1)



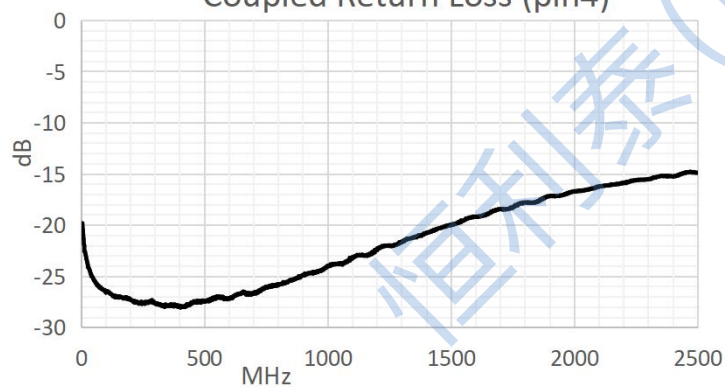
Input Return Loss (pin6)



Output Return Loss (pin1)



Coupled Return Loss (pin4)



Directivity

