



H3-ADC-20-4-75+X

5-1200MHz 75Ω 20dB Coupler

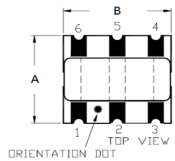
• APPLICATIONS

- Ideally suited for CATV Broadband applications.

• FEATURES

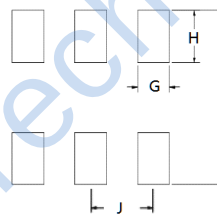
- Surface mount
- 20dB Coupler
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS



BOTTOM VIEW

Land Pattern



A	B	C
7.11	6.35	4.0Max
D	E	F
2.54	1.70	1.20

G	H	I
1.30	2.15	6.71
J		
2.54		

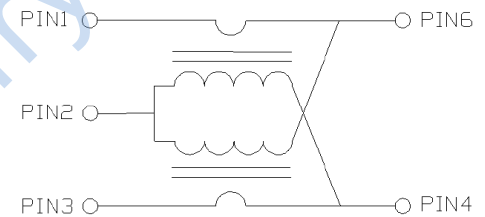
Unless otherwise stated dimensions are in mm

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 (pin1-3)	5 - 1200 MHz	18.0	20.0	21.0	dB
Main Line Loss (pin1-6)	5 - 1000 MHz		0.6	1	dB
	1000 - 1200 MHz		0.8	1.2	dB
Input Return Loss (pin1)	5 - 1000 MHz	20	27		dB
	1000 - 1200 MHz	18	25		dB
Output Return Loss (pin6)	5 - 1000 MHz	20	26		dB
	1000 - 1200 MHz	18	23		dB
Coupled Return Loss (pin3)	5 - 1000 MHz	20	28		dB
	1000 - 1200 MHz	18	25		dB
Isolation	5 - 1000 MHz	25	33		dB
	1000 - 1200 MHz	20	29		dB

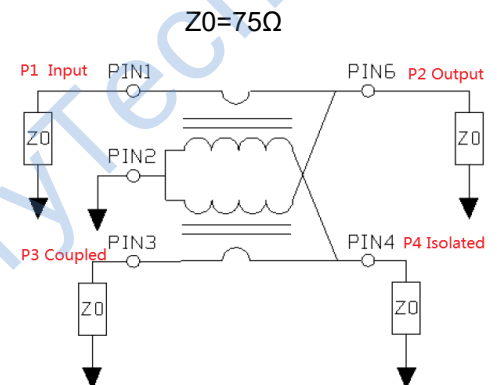
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

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

APPLICATION & TEST CIRCUIT

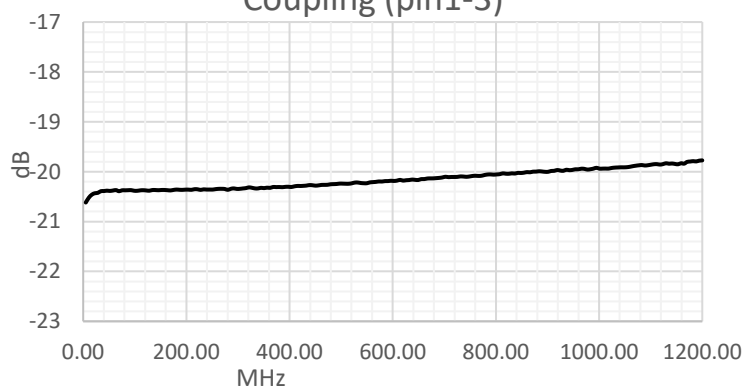


ABSOLUTE MAXIMUM RATINGS

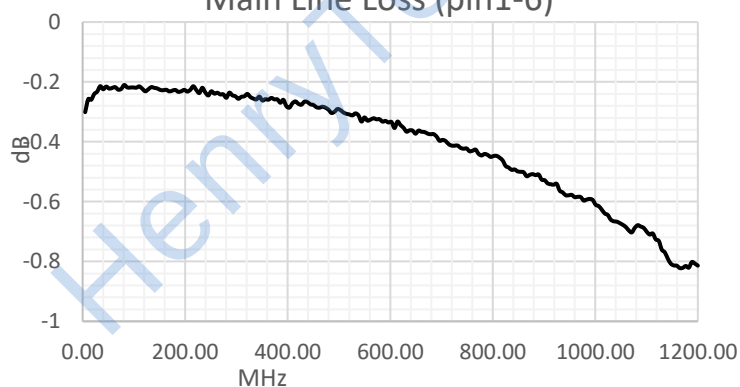
Parameter	Value
Input RF Power	2W Max
DC Current	500mA Max
Operating Temperature Range	-40 to 95°C

TEST CURVE

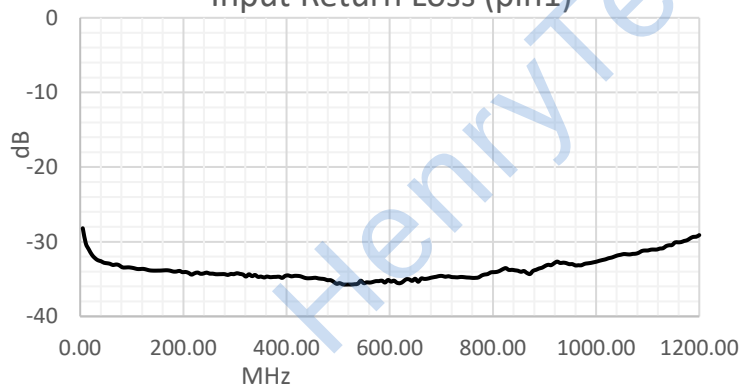
Coupling (pin1-3)



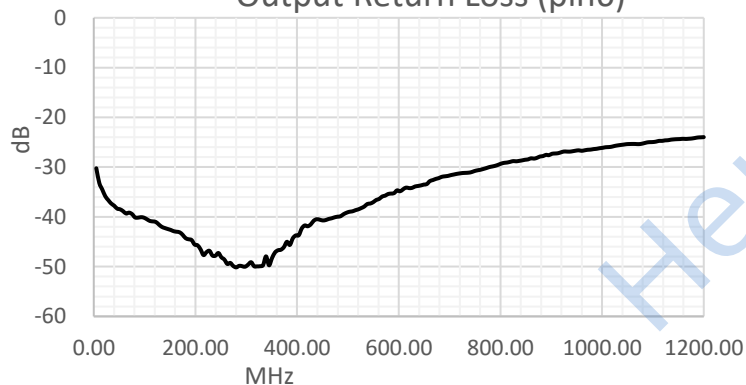
Main Line Loss (pin1-6)



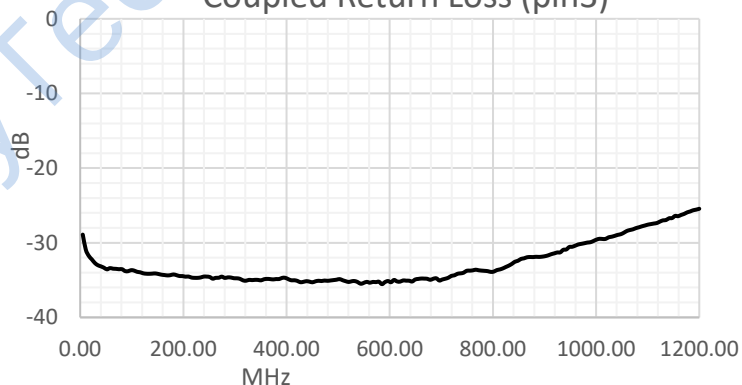
Input Return Loss (pin1)



Output Return Loss (pin6)



Coupled Return Loss (pin3)



Isolation (pin1-4)

