



H3-ACP-7520-P01

5-3250MHz 75Ω 20dB Coupler

• APPLICATIONS

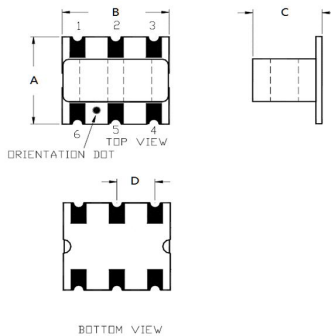
- supporting a variety of broadband applications including DOCSIS 3.1/4.0 systems and equipment.

• L-Band

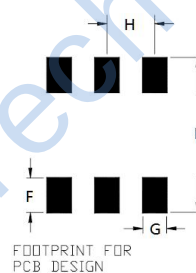
• FEATURES

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

DIMENSIONS



Land Pattern



A	B	C
6.35	7.11	2.45
D		
2.54		

E	F	G
7.87	1.78	1.27
H		
2.54		

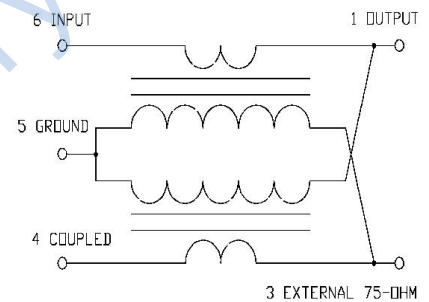
Unless otherwise stated dimensions are in mm

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			11.3	dB
	40 MHz			0.9	dB
	1218 MHz			1.0	dB
	1800 MHz			1.1	dB
	2350 MHz			1.4	dB
Input Return Loss (pin6)	5 - 40 MHz	10			dB
	40 - 1800 MHz	14			dB
	1800 - 2350 MHz	12			dB
Output Return Loss (pin1)	5 - 40 MHz	11			dB
	40 - 1800 MHz	19			dB
	1800 - 2350 MHz	15			dB
Coupled Return Loss (pin4)	5 - 40 MHz	10			dB
	40 - 1800 MHz	12			dB
	1800 - 2350 MHz	10			dB
Directivity (pin6-3)	5 MHz	8			dB
	40 MHz	18			dB
	1218 MHz	15			dB
	1800 MHz	10			dB
	2350 MHz	7			dB

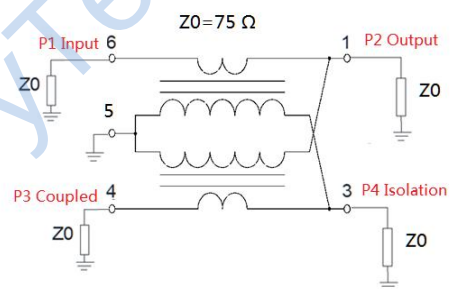
FUNCTIONAL SCHEMATIC



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

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TEST CURVE

