



H3-MACP-011045

5-1225MHz 75Ω 23dB Coupler

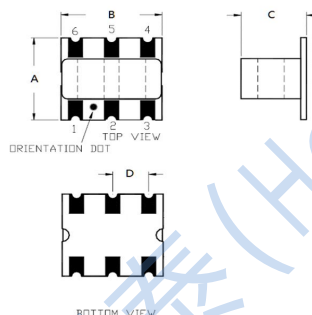
• APPLICATIONS

• Ideally suited for high volume CATV/Broadband applications.

• FEATURES

- Surface mount
- 23dB Coupler
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS

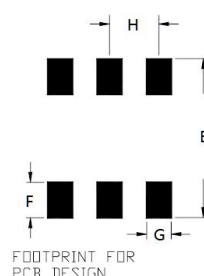


A	B	C
6.35	7.11	4.5Max
D		
2.54		

Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

Land Pattern

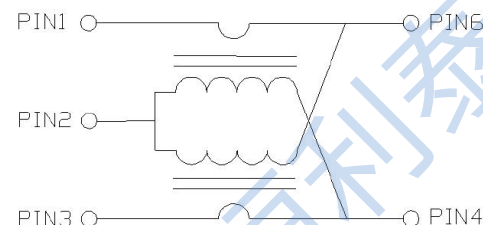


E	F	G
7.87	1.78	1.27
H		
2.54		

ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0			50		Ohm
Coupling	5 - 30 MHz	24.2	23.6	23.0	dB
	30 - 88 MHz	24.2	23.8	23.5	dB
	88 - 512 MHz	25.0	23.4	22.0	dB
	512 - 1225 MHz	27.5	22.2	20.5	dB
Main Line Loss	5 - 30 MHz		0.1	0.4	dB
	30 - 88 MHz		0.1	0.2	dB
	88 - 512 MHz		0.2	0.3	dB
	512 - 1000 MHz		0.7	1	dB
Input Return Loss	5 - 30 MHz	10	23		dB
	30 - 88 MHz	20	35		dB
	88 - 512 MHz	22	34		dB
	512 - 1000 MHz	18	30		dB
Output Return Loss	5 - 30 MHz	10	20		dB
	30 - 88 MHz	20	32		dB
	88 - 512 MHz	20	28		dB
	512 - 1000 MHz	11	20		dB
Coupled Return Loss	5 - 30 MHz	10	21		dB
	30 - 88 MHz	20	37		dB
	88 - 512 MHz	21	34		dB
	512 - 1000 MHz	12	32		dB
Isolation	5 - 30 MHz	35	45		dB
	30 - 88 MHz	45	46		dB
	88 - 512 MHz	33	42		dB
	512 - 1000 MHz	23	36		dB
	1000 - 1225 MHz	20	30		dB

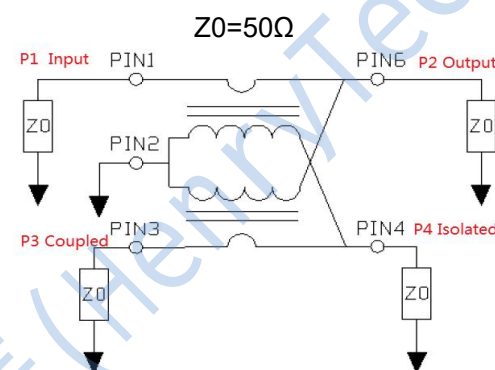
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Input
2	Ground
3	Coupled
4	External 50 Ohm
5	Not Connected
6	Output

APPLICATION & TEST CIRCUIT



ABSOLUTE MAXIMUM RATINGS

Parameter	Value
RF Power	10W Max
DC Current	500mA Max
Operating Temperature Range	-40 to 125°C
Storage Temperature	-55 to 125°C

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TEST CURVE

