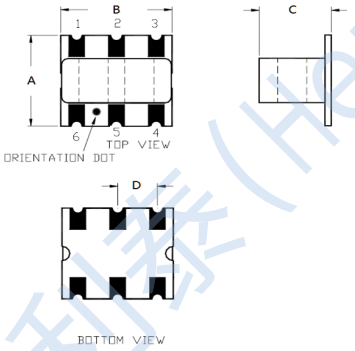
Directional Couple

H3-MACP-011068

5-2000MHz 75Ω 17dB Coupler

- **APPLICATIONS**
- Ideally suited for high volume CATV/Broadband applications.
- **FEATURES**
- Surface mount
- 17dB Coupler
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS

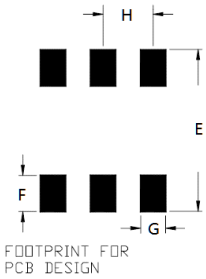


A	B	C
6.35	7.11	2.50
D		
2.54		

Unless otherwise stated dimensions are in mm

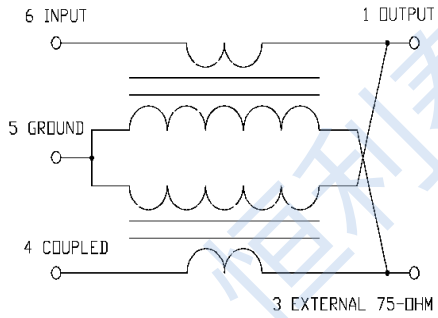
Tolerance: .xx ± 0.25, .xxx ± 0.05

Land Pattern



E	F	G
7.87	1.78	1.27
H		
2.54		

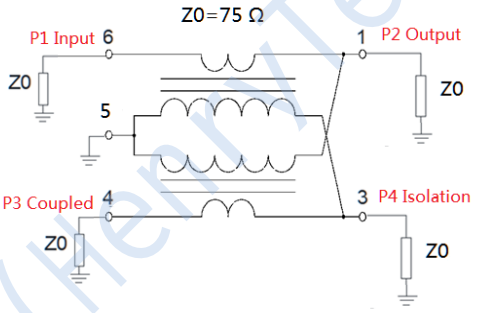
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

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

APPLICATION & TEST CIRCUIT



ELECTRICAL SPECIFICATIONS@25℃:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0(P1/P2/P3/P4)			75/75/75/75		Ohm
Coupling	5 - 2000 MHz	16.8	17.3	17.8	dB
Main Line Loss	5 - 1225 MHz		0.6	0.7	dB
	1225-1800 MHz		0.8	1.25	dB
	1800-2000 MHz		1.1	1.6	dB
Input Return Loss	5 - 1225 MHz	20	28		dB
	1225-1800 MHz	18	21		dB
	1800-2000 MHz	16	22		dB
Output Return Loss	5 - 1225 MHz	18	29		dB
	1225-1800 MHz	15	23		dB
	1800-2000 MHz	14	20		dB
Coupled Return Loss	5 - 1225 MHz	20	27		dB
	1225-1800 MHz	20	25		dB
	1800-2000 MHz	20	24		dB
Isolation	5 - 1225 MHz	26	38		dB
	1225-1800 MHz	21	30		dB
	1800-2000 MHz	20	27		dB

ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input Power	2W Max
DC Current	500mA Max
Operating Temperature Range	-40 to 85℃

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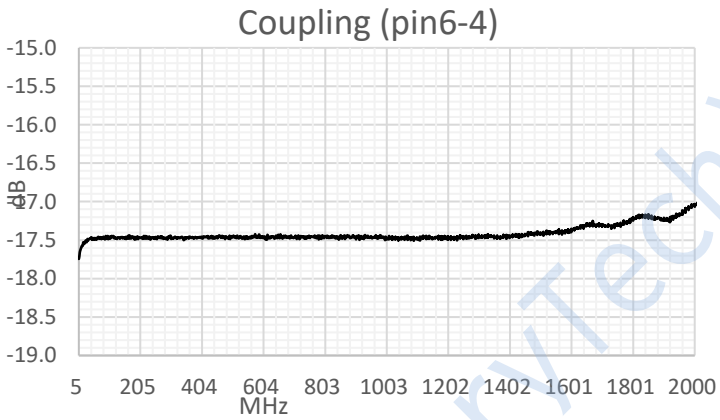
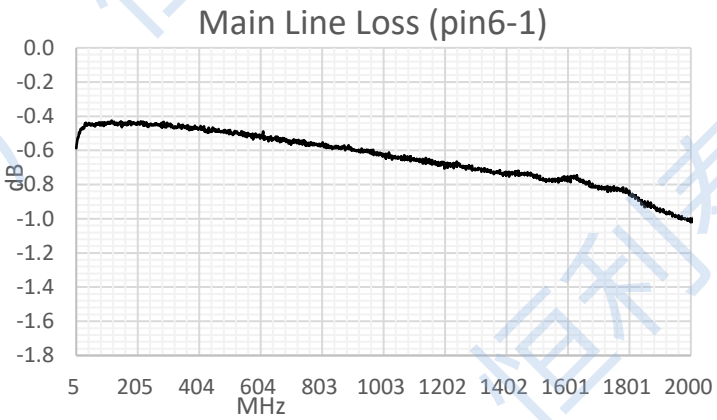
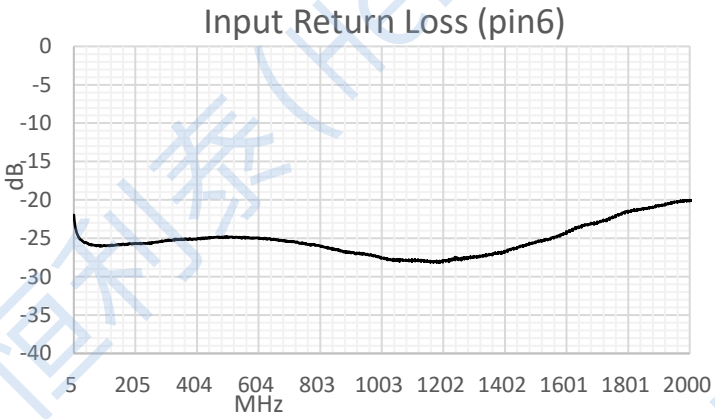
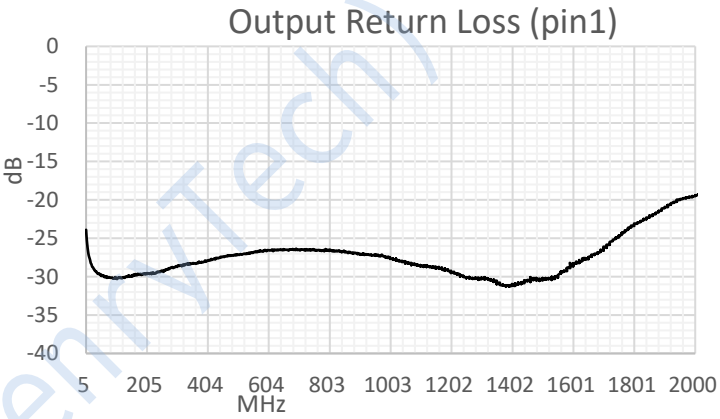
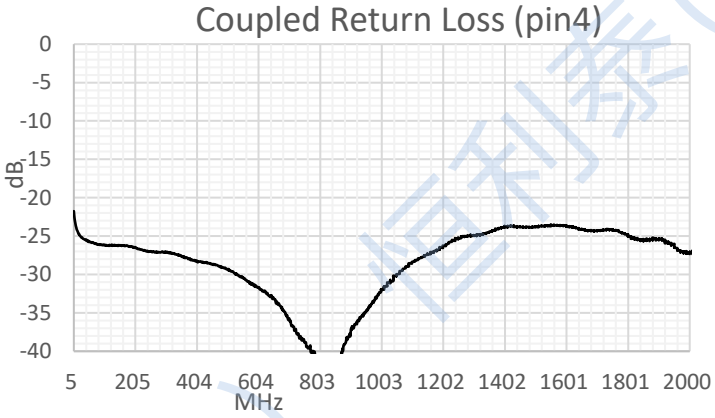
TEST CURVE

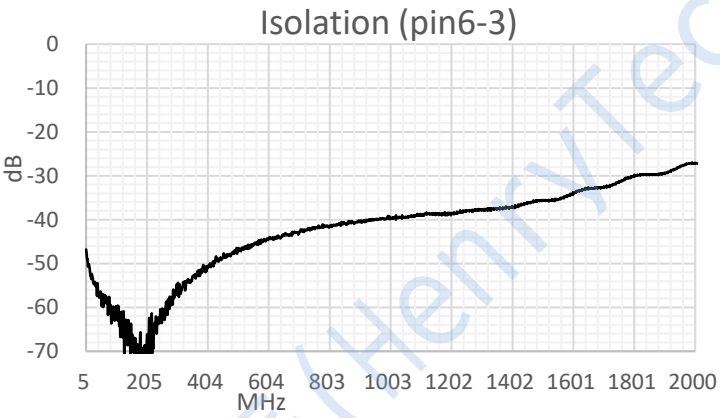












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