

H3-TCD-4-75+

5-1000MHz 75Ω 10dB Coupler

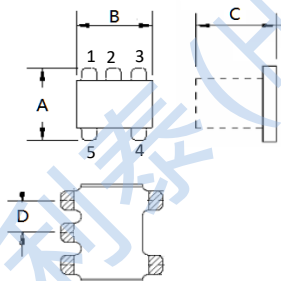
APPLICATIONS

• Ideally suited for CATV Broadband applications.

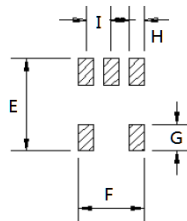
FEATURES

- Surface mount
- 10dB Coupler
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS



Land Pattern



A	B	C
3.81	3.81	2.74
D		
1.27		

E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

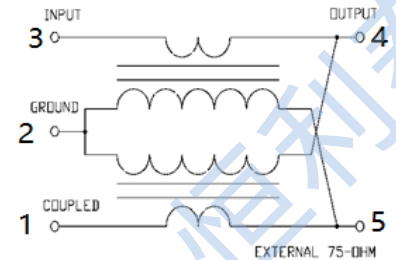
Unless otherwise stated dimensions are in mm

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	5 - 1000 MHz	9.0	10.0	11.0	dB
Main Line Loss	5 - 50 MHz		1.2	1.4	dB
	50 - 500 MHz		1.4	1.7	dB
	500 - 1000 MHz		1.8	2	dB
Input Return Loss	5 - 1000 MHz	12	18		dB
Output Return Loss	5 - 1000 MHz	12	23		dB
Coupled Return Loss	5 - 1000 MHz	12	16		dB
Directivity	5 - 50 MHz	20	22		dB
	50 - 600 MHz	16	20		dB
	600 - 1000 MHz	14	18		dB

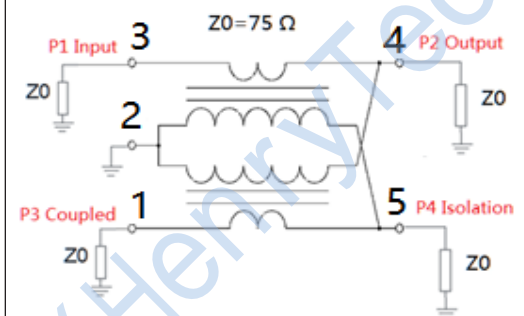
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Coupled
2	Ground
3	Input
4	Output
5	Isolated port (75 OHM termination)

APPLICATION & TEST CIRCUIT



ABSOLUTE MAXIMUM RATINGS

Parameter	Value
RF Power	250 mW Max
DC Current	30mA Max
Operating Temperature Range	-20 to 80°C
Storage Temperature	-20 to 80°C

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TEST CURVE

