



DO-IT-YOURSELF

DIRECTIONAL COUPLERS

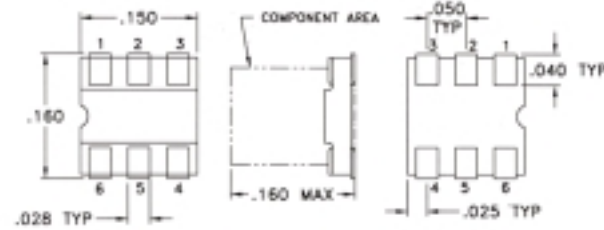


Typical Performance Data - TCD-13-4-75

Frequency (MHz)	Insertion Loss (dB)	CPL (dB)	DIRECTIVITY (dB)	RL-IN (dB)	RL-OUT (dB)	RL-CPL (dB)
5	0.96	13.23	22.93	18.39	22.11	20.63
100	0.8	13.07	21.46	21.56	29.75	23.23
200	0.82	13.07	19.9	22.09	29.67	22.99
300	0.84	13.06	18.25	22.15	27.88	22.67
400	0.86	13.03	16.68	21.58	24.86	22.04
500	0.86	12.96	15.34	20.44	22.11	21.08
600	0.87	12.88	14.27	19.08	19.99	20.15
700	0.91	12.82	13.42	17.97	18.61	19.42
800	0.93	12.73	12.75	17.33	17.64	18.67
1000	1.02	12.56	11.88	17.83	17.63	17.78

CASE STYLE DRAWINGS & DIMENSIONS (INCH)

CASE STYLE DB714



WT GRAMS: .15

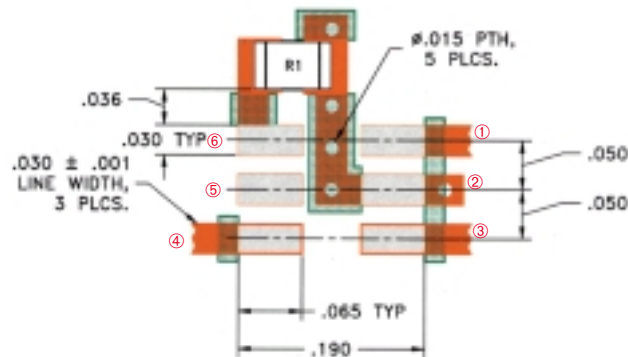
PIN CONFIGURATION

PORT	
INPUT	3
OUTPUT	4
COUPLED	1
GND	2
50/75Ω TERM (EXTERNAL)	6
NOT USED	5

MAXIMUM RATINGS

OPERATING TEMPERATURE	-20°C to 85°C
STORAGE TEMPERATURE	-55°C to 100°C

SUGGESTED PCB LAYOUT FOR TCD COUPLERS



- DENOTES METALLIZATION
- DENOTES SOLDER MASK
- DENOTES METALLIZATION FOR DEVICE SOLDERING

RECOMMENDED MATERIAL: ROGERS R04350, DIELECTRIC THICKNESS: .030 ± .002
 COPPER: 1/2 OZ. EACH SIDE
 RESISTOR R1: 0805 SIZE, REFER TO TABLE 1 FOR VALUE.

Fig. 7

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