

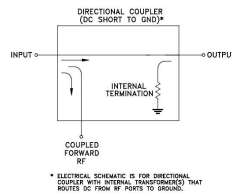
Features

- very flat coupling
- very broadband, multi octave
- temperature stable, LTCC base
- all welded construction
- leads attached for better solderability
- micro miniature coupler
- aqueous washable

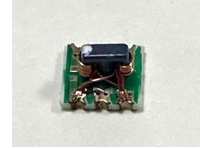
Applications

- GSM
- PCN
- GPS

Electrical Schematic



JY-DBTC16-282LX+



Generic photo used for illustration purposes only

50Ω, 16dB coupling, 5 to 2850 MHz

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range	-	5		2850	Mhz
Mainline Loss	5-50 50-500 1000-2850	-	0.8 0.8 1.8	1.2 1.10 2.4	dB
Nominal Coupling	5-2850	-	16.8	-	dB
Coupling Flatness(±)	5-50 1000-2850	-	0.3 0.6	-	dB
Directivity	5-50 50-500 1000-2850	13 15 6	15 18 15	-	dB
Return Loss (Input)	5-50 50-500 1000-2850	18 18 15	20 22 18	-	dB
Return Loss (Output)	5-50 50-500 1000-2850	18 16 14	22 24 18	-	dB
Return Loss (Coupled)	5-50 50-500 1000-2850	13 14 7	15 18 10	-	dB
Input Power	5-50 1000-2850	-	-	0.5 1.0	W

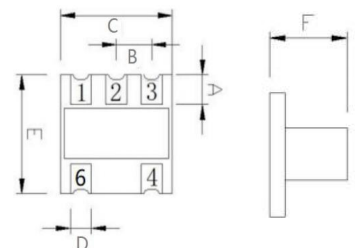
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Permanent damage may occur if any of these limits are exceeded.	

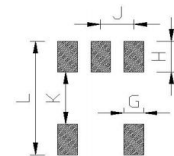
Pin Connections

INPUT	3
OUTPUT	4
COUPLED	1
GROUND	2
ISOLATE (DO NOT USE)Stop welding ground	6

Outline Drawing



PCB Land Pattern

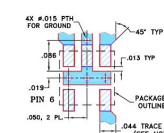


Suggested Layout, Tolerance to be within ± 0.15

Outline Dimensions: Unit (mm)

A	1.00	B	1.27	C	4.20
D	0.76	E	4.08	F	2.80
G	0.76	H	1.30	J	1.27
K	2.21	L	4.81	wt	0.06

Suggested PCB Layout



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.008\"/>

