DBTC-7-152X+

10 to 1500 MHz 7dB Coupling,

Maximum Ratings

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

Pin Connections

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

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

protected by US Patents 6,140,887 & 6,784,521





CASE STYLE: AT1667-1 PRICE: \$1.99 ea. QTY (20) \$1.69 ea. QTY (1000)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualific

VHF/UHF transmitters cellular

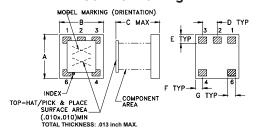
Electrical Specifications

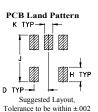
FREQ. (MHz)	COUPLIN (dB)		MAINLINE LOSS (dB)			VSWR (:1)	POWER INPUT (W)
		ax. ness	Typ. Max.	Typ.	Min.	Тур.	Max.
10-1500	7.0±0.5 ±0	0.5	31	71		71	
10-100		İ	2.2 2.7	32	20	1.4	0.5
100-750			2.2 2.6	29	15	1.4	1.0
750-1500			2.3 3.2	16	9	1.4	1.0

Typical Performance Data

Frequency (MHz)	Mainline Loss (dB)	Coupling (dB)	Directivity (dB)	Return Loss (dB)		
	In-Out	In-Cpl		In	Out	Cpl
5.00	2.17	7.07	27.17	12.45	21.18	21.33
50.00	2.12	6.92	33.24	13.24	21.93	26.08
150.00	2.15	6.97	32.95	13.44	21.26	25.04
300.00	2.17	6.98	29.37	13.82	19.97	23.43
500.00	2.16	6.91	24.56	14.71	18.49	22.88
700.00	2.18	6.84	20.96	15.84	17.26	24.92
1000.00	2.24	6.72	17.31	18.52	15.82	46.44
1200.00	2.33	6.69	15.48	21.27	15.02	24.76
1400.00	2.47	6.72	13.83	25.55	14.19	18.44
1500.00	2.57	6.76	13.09	28.03	13.74	16.40

Outline Drawing

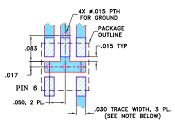




Outline Dimensions (inch)

Α	В	С	D	E	F
.150	.150	.150	.050	.030	.025
3.81	3.81	3.81	1.27	0.76	0.64
G	Н	J	K		wt
.028	.050	.160	.030		grams
0.71					0.10

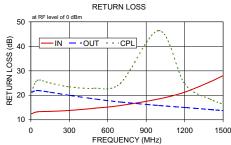
Demo Board MCL P/N: TB-278 Suggested PCB Layout (PL-150)

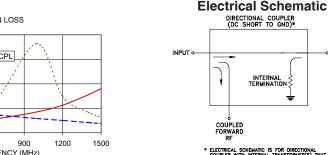


NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.030" ± 0.002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE POB IS CONTINUOUS GROUND PLANE. DENOTES POE COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

MAINLINE LOSS 2.8 B 2.6 LOSS 2.4 빌 2.0 1.8 0 300 600 900 1200 1500 FREQUENCY (MHz)





For detailed performance specs

& shopping online see web site

COUPLING & DIRECTIVITY

COUPLING

900

FREQUENCY (MHz)

-DIRECTIVITY

at RF level of 0 dBm

40

30

ළි 20

10

COUPLING & DIRECTIVITY



ISO 9001 ISO 14001 AS 9100 CERTII P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine 2 Provides ACTUAL Data Instantly at minicircuits.com IF/RF MICROWAVE COMPONENTS

1500

OUTPUT