



Directional Couplers

75Ω 5 to 1500 MHz



FEATURES

- Very broadband, multi-octave, 75Ω
- Very flat 9,10,12,13,16 and 18dB coupling
- Temperature stable LTCC base
- All welded construction
- Micro-miniature leadless package 150" x .150" x .150"



K2-DBTC+ ELECTRICAL SPECIFICATIONS

(kit includes 6 models, 5 of each model, total 30 pieces)

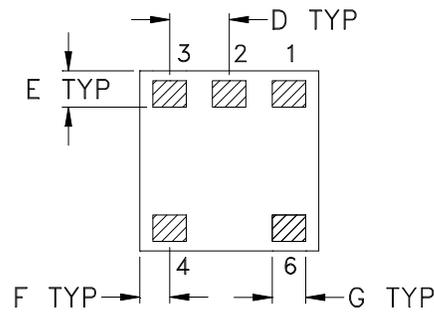
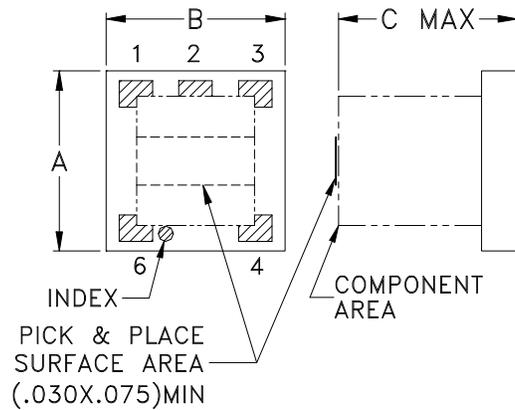
Model	Freq. (MHz) f_L - f_U	Coupling (dB)		Mainline Loss* (dB)								Directivity (dB)								VSWR (:1)	Power Input (W)		
		Nom.	Max Flatness	L		M		U		U_1		L		M		U		U_1			L	MU	U^1
				Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.				
DBTC-9-4-75+	5-1200	9.3±0.5	±0.7	1.3	1.8	1.4	1.9	1.5	2.1	1.8	2.4	20	16	19	16	18	15	17	12	1.5	0.5	0.5	0.5
DBTC-10-4-75+	5-1000	10.5±0.5	±0.7	1.5	2.2	1.4	2.0	1.5	2.0	—	—	21	16	20	13	16	—	—	—	1.3	0.5	1.0	—
DBTC-12-4-75+	5-1200	12±0.5	±0.6	1.1	1.8	1.1	1.4	1.2	1.6	1.3	1.9	19	17	18	15	17	10	13	8	1.3	0.5	1.0	1.0
DBTC-13-5-75+	5-1000	13.2±0.5	±0.6	0.9	1.4	1.0	1.5	1.1	1.6	—	—	21	17	19	14	18	—	—	—	1.3	0.5	1.0	—
	1000-1500	13.6±0.5	±0.8	—	—	—	—	—	—	1.4	2.2	—	—	—	—	—	—	17	—	1.3	—	—	1.0
DBTC-16-5-75+	5-1000	16.3±0.5	±0.7	1.2	2.0	1.0	1.5	1.1	1.6	—	—	22	16	21	13	20	—	—	—	1.3	0.5	1.0	—
	1000-1500	16.8±0.7	±0.7	—	—	—	—	—	—	1.3	1.9	—	—	—	—	—	—	19	—	1.3	—	—	1.0
DBTC-18-4-75+	5-1000	18.2±0.5	±0.7	0.8	1.5	0.8	1.4	1.0	1.6	—	—	25	16	21	14	15	—	—	—	1.3	1.0	1.0	—

L = 5-50MHz, M = 50-500MHz, U = 500-1000MHz, for DBTC-13-5-75+ & DBTC-16-5-75+: U_1 = 1000-1500MHz, for DBTC-9-4-75+ & DBTC-12-4-75+: U_1 = 1000-1200MHz

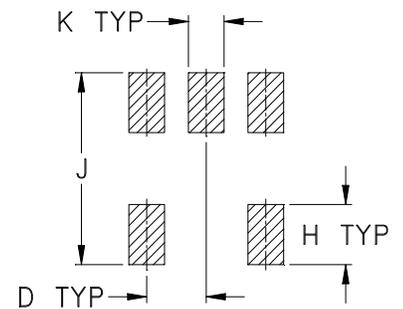
Protected under U.S. Patents 6,140,887 & 6,784,521
* Includes theoretical power loss due to coupling.

Outline Dimensions

AT790-1



PCB Land Pattern



Suggested Layout,
Tolerance to be within $\pm .002$

CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAMS
AT790-1	.150 (3.81)	.150 (3.81)	.150 (3.81)	.050 (1.27)	.030 (0.76)	.025 (0.64)	.028 (0.71)	.050 (1.27)	.160 (4.06)	.030 (0.76)	-- --	.10

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .01$; 3 Pl. $\pm .005$

Notes:

1. Open style, Ceramic base.
2. Termination finish: Silver palladium or gold over nickel based on stock availability



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

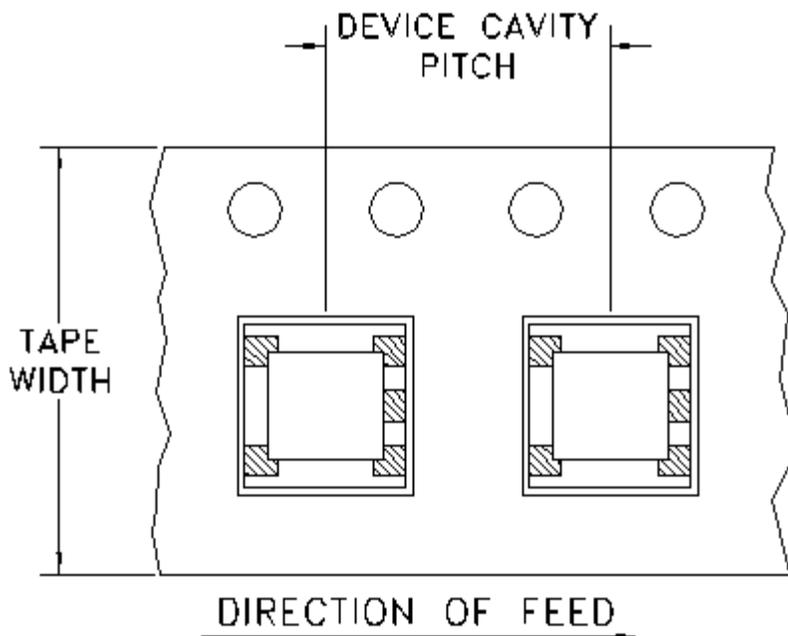


Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F17

DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel	
12	8	7	Small quantity standards (see note)	20
				50
				100
				200
				500
		13	Standard	1000
			2000	

Note: Please Consult individual model data sheet to determine device per reel availability.

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf



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