

DESIGNER'S KIT K3-DBTC-L+

Directional Couplers

50Ω 5 to 2000MHz

FEATURES

- Very flat 9 to 20dB coupling
- Very broadband, multi-octave, 50Ω
- Temperature stable LTCC base
- All welded construction
- Micro-miniature package with leads (L).166" x (W).150" x (H).155

MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
THE SOLUTION



K3-DBTC-L+ ELECTRICAL SPECIFICATIONS

(kit includes 5 models, 5 of each, 25 total)

Model	Freq. (MHz) f_L - f_U	Coupling (dB) Nom. Max Flatness		Mainline Loss ¹ (dB)						Directivity (dB)						VSWR (:1) Typ.	Power Input (W)	
				L		M		U		L		M		U			L	MU
				Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.		Max.	Max.
DBTC-9-4L+	5-1000	9.0±0.5	±0.5	1.2	2.0	1.2	1.8	1.5	2.0	21	17	18	13	15	—	1.20	0.5	1.0
DBTC-12-4L+	5-1000	12.2±0.5	±0.9	0.9	1.8	0.7	1.3	1.1	1.6	33	22	21	14	15	—	1.20	0.5	1.0
DBTC-13-4L+	5-1000	13.0±0.5	±0.6	0.7	1.3	0.7	1.3	1.1	1.6	21	17	18	13	13	—	1.20	0.5	1.0
DBTC-17-5L+	50-1000	17.7±0.9	±1.0	0.9	1.4	0.9	1.4	1.1	1.6	20	13	20	13	14	—	1.20	—	2.0
DBTC-20-4L+	20-1000	20.4±0.6	±0.8	0.3	1.0	0.4	1.0	0.7	1.3	21	13	21	14	16	—	1.20	1.0	1.0

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1. Includes theoretical power loss due to coupling.

L = low range [f_L to $10f_L$]

M = mid range [$10f_L$ to $f_U/2$]

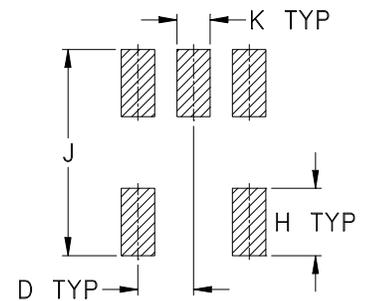
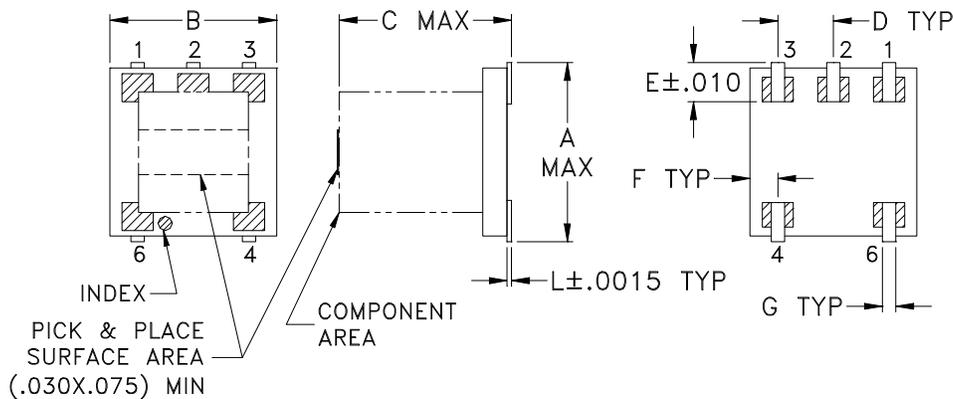
U = upper range [$f_U/2$ to f_U]



Outline Dimensions

AT1030

PCB Land Pattern



Suggested Layout,
Tolerance to be within ±.002

CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAMS
AT1030	.166 (4.22)	.150 (3.81)	.155 (3.94)	.050 (1.27)	.037 (0.94)	.025 (0.64)	.012 (0.30)	.060 (1.52)	.184 (4.67)	.030 (0.76)	.004 (0.10)	.10

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

Notes:

- Open style, ceramic base.
- Termination finish:
For RoHS Case Styles: Tin plate.
For RoHS-5 Case Styles: Tin-Lead plate.



P.O. Box 350186, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

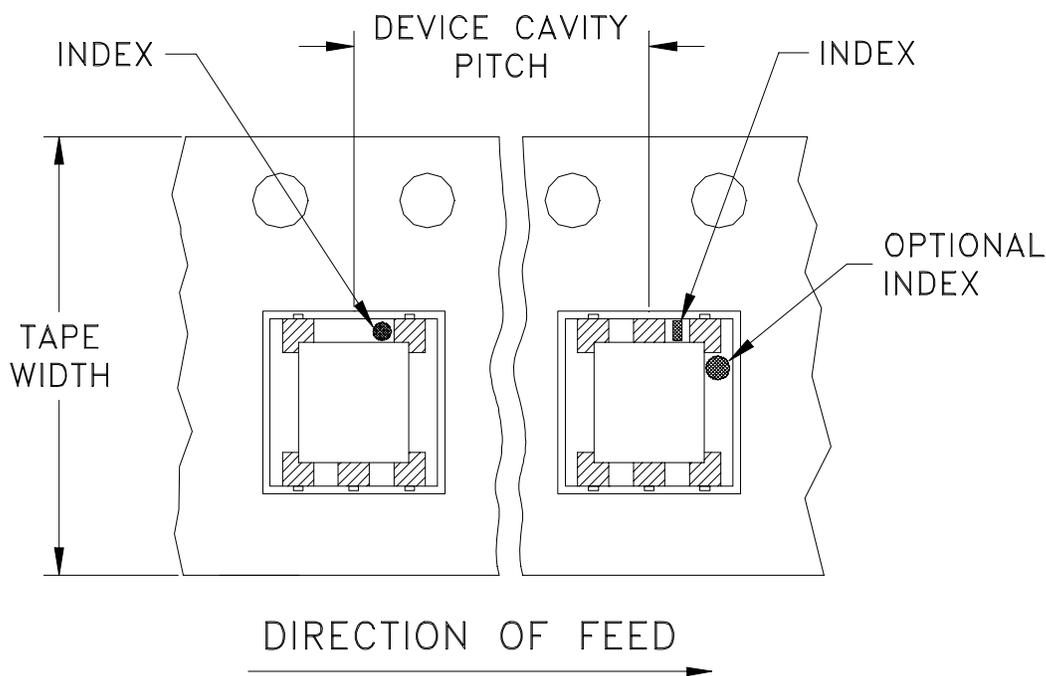


Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F76

DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
12	8	7	20
			50
			100
			200
			500
		13	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



INTERNET <http://www.minicircuits.com>

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