DESIGNER'S KIT K1-DBTC+

Directional Couplers

50Ω 5 to 2000 MHz

FEATURES

- Very Flat 9 to 20dB Coupling
- Very broadband, multi-octave, 50Ω
- Temperature stable LTCC base
- All welded construction
- Micro-miniature leadless package 150" x .150" x .150"

MINI-CIRCUITS DESIGNER'S KITS SPEED UP THE SOLUTION

RoHS COMPLIANT

K1-DBTC+ ELECTRICAL SPECIFICATIONS

(kit includes 5 of each model, total 25 pieces)

Model	Freq. (MHz)	Coupling (dB)		Mainline Loss[1] (dB)						Directivity (dB)						VSWR (:1)	Power Input (W)	
				L		M		U		L		M		U			L	MU
	f_L-f_U	Nom.	Max Flatness	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Max.
DBTC-9-4+	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-12-4+	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-13-4+	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-17-5+	50-2000	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-20-4+	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

Protected under U.S. Patents 6,140,887 & 6,784,521

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]

REV. B
ECO-009188
M105265
K1-DBTC+
MCL NY
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