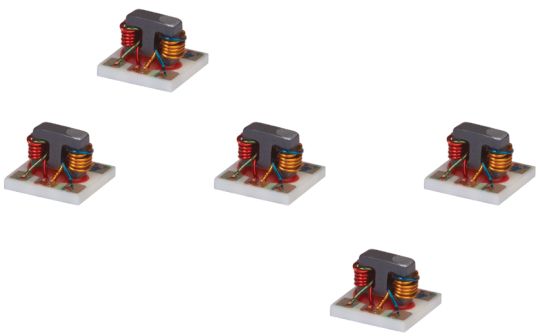
DESIGNER'S KIT K2-DBTC+

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"

MINI-CIRCUITS DESIGNER'S KITS SPEED UP THE SOLUTION

RoHS COMPLIANT

K2-DBTC+ ELECTRICAL SPECIFICATIONS

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

Model	Freq. (MHz)	Coupling (dB)		Mainline Loss* (dB)								Directivity (dB)								VSWR (:1)	Power Input (W)		
				L		M		U		U_1		L		M		U		U_1			L	MU	U^1
	f_L-f_U	Nom.	Max Flatness	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Max.	Max.
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.

REV. B
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K2-DBTC+
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