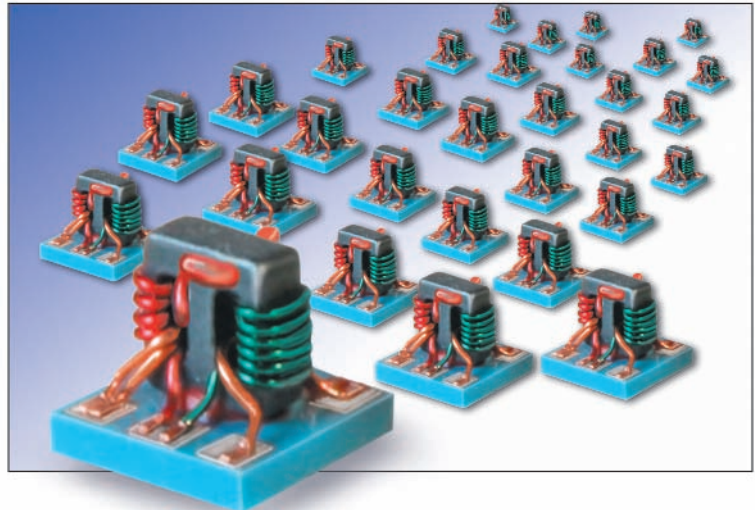


# DIRECTIONAL COUPLERS

## Designer's Kit K2-DBTC+

MINI-CIRCUITS DESIGNER'S KITS  
**SPEED UP**  
 THE SOLUTION!



### 5 to 1500MHz

#### DBTC-75+ 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"



#### Kit K2-DBTC+ Electrical specifications of each model (6 models, 5 of each, 30 total)

Model	Freq. (MHz) $f_L - f_U$	Coupling (dB) Nom. Max. Flatness		Mainline Loss* (dB)								Directivity (dB)				VSWR (:1) Typ.	Input Power (W)						
				L		M		U		$U_1$		L	M	U	$U_1$		L	MU	$U_1$				
				Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.		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 the theoretical power loss due to coupling.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For quick access to product information see MINI-CIRCUITS CATALOG & WEB SITE

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