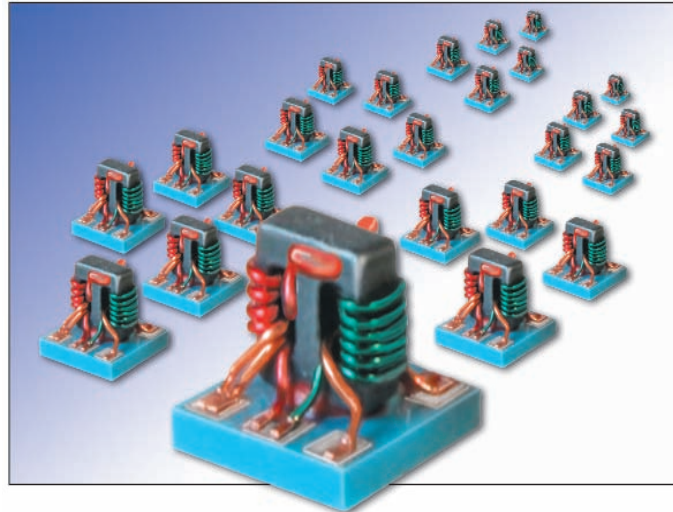


# DIRECTIONAL COUPLERS

## Designer's Kit K1-DBTC+

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



### 5 to 2000MHz

#### DBTC+ 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"



All models are RoHS compliant

**\$49<sup>95</sup>**  
only *ea. kit (5 models, 5 of each, 25 total)*

#### Kit K1-DBTC+ Electrical specifications of each model

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

L = low range [ $f_L$  to  $10f_L$ ]    M = mid range [ $10f_L$  to  $f_U/2$ ]    U = upper range [ $f_U/2$  to  $f_U$ ]

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

\*Includes 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

RF/IF MICROWAVE COMPONENTS

REV. OR  
M105265  
K1-DBTC+