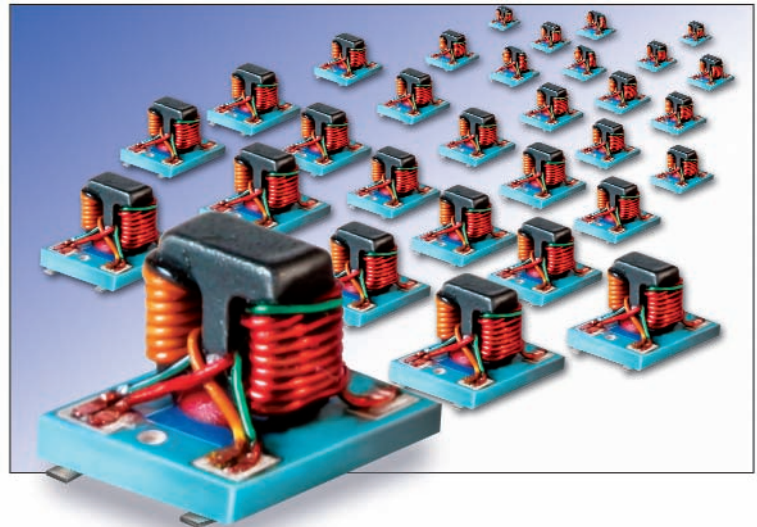


# DIRECTIONAL COUPLERS *Designer's Kit K4-DBTC-75L+*

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



## 5 to 1500MHz

### DBTC-75L+ 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 leaded package (L).166" x (W).150" x (H).155"



**\$64<sup>95</sup>**  
*only* ea. kit (6 models, 5 of each, 30 total)

### Kit K4-DBTC-75L+ Electrical specifications of each model

Model	Freq. (MHz) f <sub>L</sub> -f <sub>U</sub>	Coupling (dB)		Mainline Loss* (dB)				Directivity (dB)				VSWR (:1) Typ.	Input Power (W)										
		Nom.	Max. Flatness	L	M	U	U <sub>1</sub>	L	M	U	U <sub>1</sub>		L	MU	U <sub>1</sub>								
																Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Max.
DBTC-9-4-75L+	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-10-4-75L+	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-12-4-75L+	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-13-5-75L+	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-16-5-75L+	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-18-4-75L+	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-13-5-75L+ & DBTC-16-5-75L+: U<sub>1</sub> = 1000-1500MHz,  
 For DBTC-9-4-75L+ & DBTC-12-4-75L+: U<sub>1</sub> = 1000-1200MHz

Protected under U.S. Patents 6,140,887 & 6,784,521  
 \*Includes the theoretical power loss due to coupling.



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**RF/IF MICROWAVE COMPONENTS**

REV. OR  
 M105868  
 K4-DBTC-75L+