

## Directional Coupler

## DBTC-ED12884/1

### Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability.  
At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



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**CASE STYLE : AT1030**

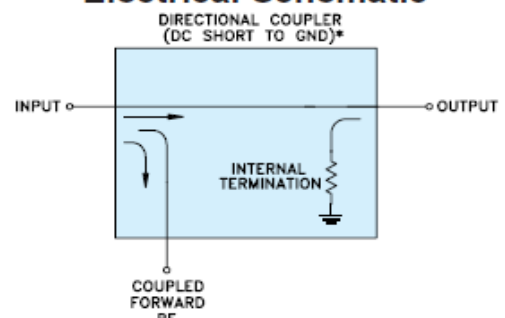
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		1		1000 MHz
Coupling	Nominal		10.2 ± 0.5	dB
	Flatness		± 1	dB
Mainline Loss *	1-10 MHz		1.45	dB
	10-500 MHz		1.35	dB
	500-1000 MHz		1.45	dB
Directivity	1-10 MHz		22	dB
	10-500 MHz		21	dB
	500-1000 MHz		17	dB
VSWR			1.3	(:1)
RF Power Input	1-50 MHz			.5 W
	50-1000 MHz			1

Note: \* Mainline loss includes theoretical coupled power loss of 0.435 dB at 10.2 dB coupling.

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

PIN CONNECTIONS	
INPUT	3
OUTPUT	4
COUPLED	1
GROUND	2
ISOLATE (DO NOT USE)	6

### Electrical Schematic



\* ELECTRICAL SCHEMATIC IS FOR DIRECTIONAL COUPLER WITH INTERNAL TRANSFORMER(S) THAT ROUTES DC FROM RF PORTS TO GROUND.