

Directional Coupler

SYDC-ED14339/2

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.

Please click "Back", and then click "Contact Us" for Applications support.



CASE STYLE : AH1596

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency		10		400	MHz
Coupling	Nominal		10±0.7		dB
	Flatness		±0.3		dB
Mainline Loss **	10-400 MHz		0.50		dB
Directivity	10-400 MHz		18		dB
VSWR	10-400 MHz		1.18		(:1)
RF Power Input***	10-400 MHz			20	W

** Mainline loss includes theoretical coupled power loss of 0.45 dB at 10 dB coupling.

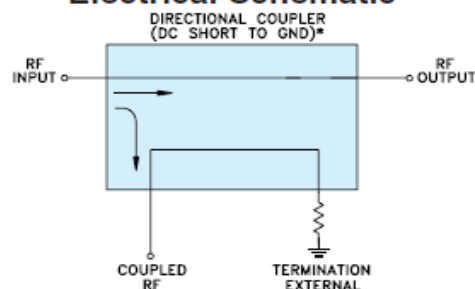
***The user must provide adequate means of heat removal to limit the temperature of ground connections 2,3,6,7 to 65°C, in order to ensure proper performance. At 25°C ambient temperature this requires thermal resistance of the user's PC board heat sink to be 10°C/W.

MAXIMUM RATINGS	
Operating Temperature	-40°C to 65°C Case ⁽¹⁾
Storage Temperature	-55°C to 100°C

⁽¹⁾Case temperature is defined as temperature on ground leads

PIN CONNECTIONS	
INPUT	8
OUTPUT	1
COUPLED FORWARD	5
EXTERNAL 50 OHM	4
GROUND	2,3,6,7

Electrical Schematic



* ELECTRICAL SCHEMATIC IS FOR DIRECTIONAL COUPLER WITH INTERNAL TRANSFORMER(S) AND EXTERNAL TERMINATION.