

Bi-Directional Coupler

SYDC-ED14517/3

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 : AH1647

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency		30		512	MHz
Coupling	Nominal		20±1		dB
	Flatness		±1		dB
Mainline Loss **	30-512 MHz		0.50		dB
Directivity	30-512 MHz		25		dB
VSWR	30-512 MHz		1.20		(:1)
RF Power Input	30-512 MHz			50	W

**Mainline loss includes theoretical coupled power loss of 0.044 dB at 20 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	1
OUTPUT	8
COUPLED FORWARD	4
COUPLED REVERSE	5
GROUND	2,3,6,7

Functional Diagram

