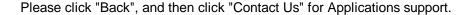
Bi-Directional Coupler SYDC-ED14517/3

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.





CASE STYLE: AH1647

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C						
Parameter		Min.	Тур.	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.

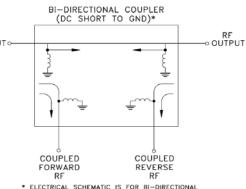
^{***}The user must provide adequate means of heat removal to limit the temperature of ground connections 2,3,6,7 to 65°C, in order to ensure proper performance. At 25°C ambient temperature this requires thermal resistance of the user's PC board heat sink to be 10°C/W.

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



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



