Bi-Directional Coupler SYDC-ED12537/2

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: AH202-1

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		Min.	Тур.	Max.	Units
Frequency		5		700	MHz
Coupling	Nominal		20±0.5		dB
	Flatness		±0.595		dB
Mainline Loss **	5-50 MHz		0.1		dB
	50-350 MHz		0.2		dB
	350-700 MHz		0.3		dB
Directivity	5-50 MHz		37		dB
	50-350 MHz		40		dB
	350-700 MHz		24		dB
VSWR	5-700 MHz		1.05		(:1)
RF Power Input***	5-700 MHz			25	W

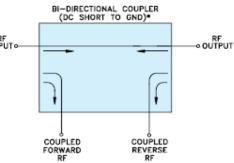
^{**} Mainline loss includes theoretical coupled power loss of 0.0436 dB at 20 dB coupling.

^{***}The user must provide adequate means of heat removal to limit the temperature of ground connections 2,3,6,7 to 85°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 20°C/W or less when the unit is driven at maximum specified RF input power, 25W. At higher ambient temperature, with the same heat sink, input power in watts must not exceed 25W x (85°C-Tambient) ÷ 60°C.

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

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

Electrical Schematic



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