

# Bi-Directional Coupler

# SYDC-ED12278/4

## 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 : AH202

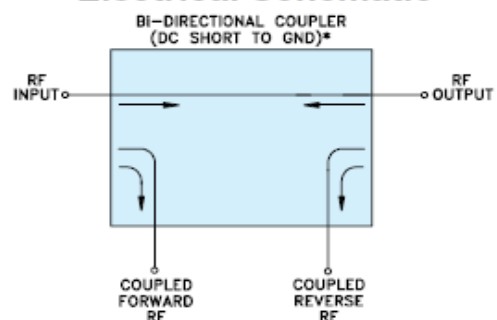
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		0.3		200 MHz
Coupling	Nominal		20.1 ± 0.3	dB
	Flatness		± 0.37	dB
Mainline Loss **	0.3-3 MHz		0.20	dB
	3-100 MHz		0.10	dB
	100-200 MHz		0.17	dB
Directivity	0.3-3 MHz		21	dB
	3-100 MHz		26	dB
	100-200 MHz		20	dB
VSWR	0.3-200 MHz		1.10	(:1)
RF Power Input	0.3-200 MHz			30 W

**Note:** \*\* Mainline loss includes theoretical coupled power loss of 0.0426dB at 20.1dB coupling.

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.