Engineering Development Model

Bi-Directional Coupler SYDC-ED14256

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 : AH1596

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		**Min.**	**Typ.**	**Max.**	**Units**
Frequency		1.5		30	MHz
Coupling	**Nominal**		20.5±1		dB
	Flatness		±0.05		dB
Mainline Loss **	**1.5-30 MHz**		0.06		dB
Directivity	**1.5-30 MHz**		33		dB
VSWR	**1.5-30 MHz**		1.12		(:1)
RF Power Input***	**1.5-30 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	8
OUTPUT	1
COUPLED FORWARD	5
COUPLED REVERSE	4
GROUND	2,3,6,7

Functional Diagram