

High Power Directional Couplers With SC Connectors



Features

- 1kW CW Operation
- SC Main Line Connectors
- 2-8 GHz Operation – Usable 1.5 to 10 GHz

Applications

- Power Tube Test Stands
- EW Systems
- Satellite Communication Transmitters
- Power Monitoring and Transmitter Protection Circuits

Specifications

FREQUENCY RANGE GHz	MODEL	NOMINAL COUPLING dB	MAXIMUM DEVIATION FROM NOMINAL dB	DIRECTIVITY (min) dB	INSERTION LOSS		VSWR		FREQUENCY SENSITIVITY** dB (max)	POWER		WEIGHT oz gr (max)
					Excluding Coupled Power (max) dB	True (max) dB	Primary Line (max)	Secondary Line (max)		AVG. kW	PEAK kW	
2-8 GHz	27002SC	40,50,60*	±1.5	14	0.25	0.25	1.5:1	1.5:1	±1.0	1.0	12.0	24 681
2-8 GHz	27005SC	40,50,60*	±1.5	14	0.25	0.25	1.5:1	1.5:1	±1.0	1.0	12.0	24 681

CONNECTORS: Primary Line Input – SC Male Secondary Line Model 27002SC – N Female Model 27005SC – SMA Female Output – SC Female

* Non-standard coupling values in the range of -40 dB to -60 dB are available, contact factory for details.

** Frequency sensitivity **is included** in coupling deviation specification

NOTES: All models are available by Special Order. Minimum quantities may apply.

ORDERING INFORMATION: Specify model number and add dash number suffix for nominal coupling in dB. For example: 27002SC-50

Outline Drawing

NOTES:

1. Dimensions in parentheses are in millimeters and for reference only.
2. Connectors mate without interference per MIL-STD-348.

TOL: ±.032 (.76)

MODEL 27002SC

