



2-8 GHz

High Power Directional Couplers With SC Connectors

- 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

SC, N and SMA, 2 to 8 GHz, 1 kW

FREQUENCY RANGE (GHz)	MODEL	NOMINAL COUPLING (dB)	MAXIMUM DEVIATION FROM NOMINAL (dB)	DIRECTIVITY (dB min.)	INSERTION LOSS (dB)		VSWR		FREQUENCY SENSITIVITY** (dB max.)	POWER		WEIGHT (max.)	
					EXCLUDING COUPLED POWER (max.)	TRUE	PRIMARY LINE (max.)	SECONDARY LINE (max.)		AVERAGE (kW)	PEAK (kW)	oz.	gr.
2-8	27002SC-40	40*	±1.5	14	0.25	0.25	1.5	1.5	±1.0	1.0	12.0	24	681
	27002SC-50	50*											
	27002SC-60	60*											
2-8	27005SC-40	40*	±1.5	14	0.25	0.25	1.5	1.5	±1.0	1.0	12.0	24	681
	27005SC-50	50*											
	27005SC-60	60*											

* 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

CONNECTORS:

Primary Line: Input - SC Male, Output - SC Female

Secondary Line: Model 27002SC - N Female, Model 27005SC - SMA Female

NOTES:

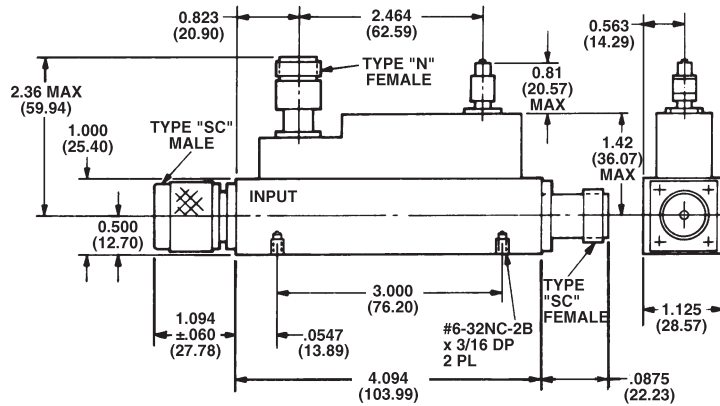
All units are available on a Custom-Order basis. Minimum quantities may apply.

See page 87 for type N and TNC versions High Power Couplers.



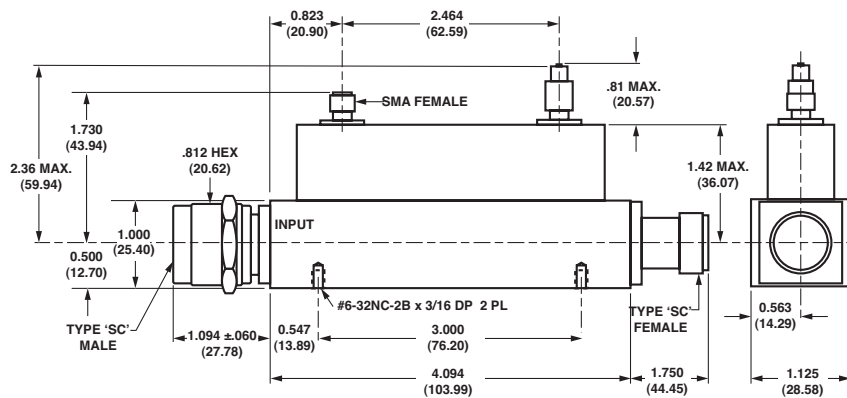
Couplers

Outline Drawings



TOL: ±.032 (.76)

MODEL 27002SC



TOL: ±.032 (.76)

CONNECTORS MATE WITHOUT INTERFERENCE PER MIL-C-39012

MODEL 27005SC

Dimensions in inches (mm in parentheses), unless otherwise specified.