

Surface Mount Directional Couplers



RLC Electronics' Surface Mount Directional Couplers simplify installation, while still providing the high directivity and low VSWR of standard couplers. These units are available in both

octave or multi-octave bandwidths, over the frequency range of 500 to 3000 MHz. Coupling values of 10, 16, or 20 dB are standard.

Specifications

SC-1-2-3

Model No	Frequency (GHz)	Directivity Min.(dB)	VSWR Max.	Frequency Deviation(dB)	Loss Max.(dB) *
SC-0510-	.50-1.00	23	1.15	±.75	.20
SC-1020-	1.00-2.00	22	1.15	±.75	.20
SC-1530-	1.50-3.00	22	1.20	±.75	.25
SC-0520-	.50-2.00	20	1.25	±.75	.30
SC-0530-	.50-3.00	20	1.25	±.75	.30

Coupling (nominal): 10 ± .5 dB, 16 ± .5 dB, 20 ± 1.0 dB

Impedance: 50 ohms

Power: 50 watts average, 3 Kw peak

Connector: Tabs for surface mount

Temperature: -55 to +85° C

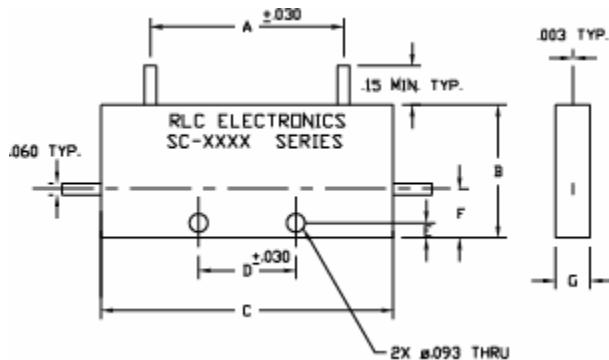
Environment: Mil-E-5400, Class 1A

Note: * Does not include coupling loss

To designate the coupler desired use:

- (1) 0510, 1020, etc. for model number
- (2) Coupling value in dB.
- (3) T for built in .5 watt termination, U for no termination.

OUTLINE DRAWING



Model No.	A	B	C	D	E	F	G
SC-0510	2.64	.75	3.14	2.98	.50	.25	.20
SC-1020	1.32	.75	1.82	1.67	.50	.25	.20
SC-1530	.96	.75	1.46	1.31	.50	.25	.20
SC-0520	3.65	.75	4.15	4.00	.50	.25	.20
SC-0530	4.25	.75	4.75	4.60	.50	.25	.20

Specifications subject to change without notification.

Tolerances unless otherwise specified are .xx +/- .02. xxx +/- .005

Specials requiring closer tolerances, different frequency ranges, special connectors different materials, finishes, etc. can be furnished upon request.



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