

NEW!
SCN-SERIES

800 to 2700 MHz



Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	20W* max.

**derate linearly to 6W at 100°C ambient.*

SUM PORT	2
PORT 1	6
PORT 2	4
GROUND	1,3,5
PORT 1-2	resistor external 100 OHMS

2 PLACE DECIMALS: $\pm .01$
3 PLACE DECIMALS: $\pm .005$

A	B	C	D	E	F	G
.126	.063	.035	.024	.022	.012	.039
3.20	1.60	0.89	0.61	0.56	0.30	0.99
H	J	K	wt.			
.042	.024	.123	grams			
1.07	0.61	3.12	.020			

Figure 1 is a cross-sectional view of the package. It shows the DUT (Die Under Test) mounted on a substrate. An external resistor (R1) is connected to the DUT. The package outline is shown with dimensions: .044 LINE WIDTH, 3 PL. (SEE NOTE BELOW), .015 2 PL., .068, and 45° 2 PL. The DUT is labeled PIN 1.

RESISTOR R1: 100 Ohm, 1206 SIZE

1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS .020" $\pm$.0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. LOCATION OF PTH'S DESIGNATED ACCORDING TO ARTWORK OF TEST BOARD B14-TB-252 (CONTACT MINI-CIRCUITS).
3. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

 DENOTES PCB COPPER LAYOUT

 DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

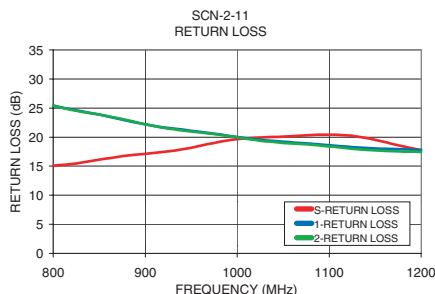
- isolation resistor, external 100 ohms
- low insertion loss, 0.4 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- very good phase unbalance, 1.0 deg. typ.
- high isolation, 22 dB typ.
- excellent power handling, 20W as splitter
- small size, 0.12"X0.06"X0.035"
- ESD non-sensitive
- temperature stable, BLUE CELL™ technology
- wrap around, solder plated terminations for excellent solderability
- low cost
- patent pending

- PCS, DECT
- WLAN
- GSM, GPS
- ISM applications

MODEL NO.	FREQUENCY (MHz)	INSERTION LOSS (dB)		ISOLATION (dB)		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		RETURN LOSS (dB)	
		ABOVE 3.0 dB								INPUT	OUTPUT
		Typ.	Max.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Typ.
SCN-2-11	800-1175 875-1125	0.5 0.5	0.8 0.8	20 22	15 18	1.0 1.0	3.0 3.0	0.1 0.1	0.3 0.3	16 16	18 20
SCN-2-15	1100-1450 1200-1375	0.5 0.4	0.8 0.7	23 25	17 20	1.5 1.5	3.0 3.0	0.25 0.2	0.4 0.3	15 16	17.5 18
SCN-2-19	1425-1900 1550-1800	0.5 0.5	0.9 0.9	23 25	17 20	2.5 2.0	4.0 4.0	0.25 0.2	0.4 0.4	15 19	18 18
SCN-2-22	1850-2200 1900-2100	0.5 0.5	0.9 0.9	22 24	17 20	2.0 2.0	5.0 5.0	0.25 0.2	0.4 0.4	16 16	19 19
SCN-2-27	2225-2700 2325-2600	0.5 0.4	1.1 1.0	21 23	17 20	3.5 2.5	6.0 6.0	0.6 0.4	0.8 0.7	19 20	17 17

SCN-2-11
INSERTION LOSS

FREQUENCY (MHz)	S-1 (dB)	S-2 (dB)
800	3.42	3.45
900	3.40	3.40
1000	3.40	3.37
1100	3.45	3.37
1200	3.55	3.40



REV. A
M86984
SCN-2-11 ED-10710/2
SCN-2-15 ED-10710/3
SCN-2-19 ED-10710/4
SCN-2-22 ED-10710/5
SCN-2-27 ED-10710/7
AD/DJ/CP
030507
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