

Ultra-Small Ceramic

Power Splitters/Combiners

NEW!
SCN-SERIES

2 Way-0° 50Ω

800 to 2700 MHz



BLUE CELL™

CASE STYLE: FV1206-1
PRICE: \$2.50 ea. QTY (10-49)
\$.99 ea. QTY (100)

Maximum Ratings

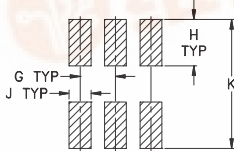
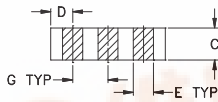
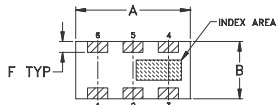
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	20W* max.

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

Pin Connections

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

Outline Drawing



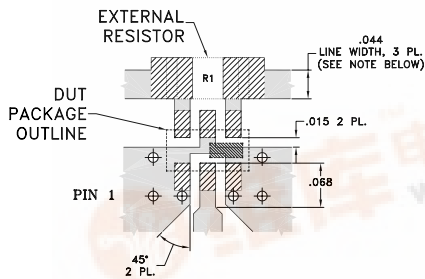
SUGGESTED LAYOUT FOR PCB PATTERN
PATTERN TO BE WITHIN ±.002

TOLERANCE UNLESS OTHERWISE STATED
2 PLACE DECIMALS: ±.01
3 PLACE DECIMALS: ±.005

Outline Dimensions (inch/mm)

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			

Demo Board MCL P/N: TB-252
Suggested PCB Layout (PL-129)



RESISTOR R1: 100 Ohm, 1206 SIZE

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

① DENOTES PCB COPPER LAYOUT

② DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Features

- 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

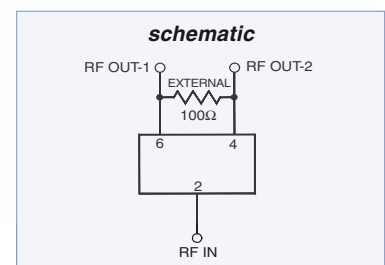
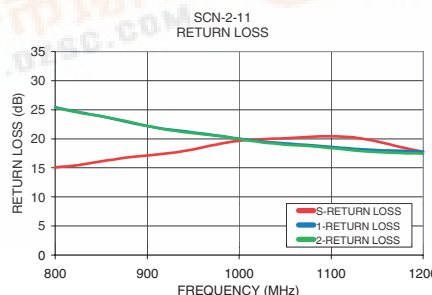
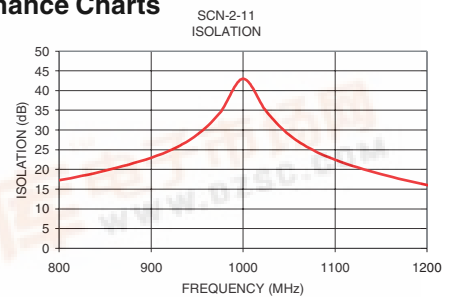
Applications

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

Splitter Electrical Specifications

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

Performance Charts



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

Performance Charts

