

Power Splitter/Combiner

2 Way-0° 50Ω

2225 to 2700 MHz

SCN-2-27+
SCN-2-27


CASE STYLE: FV1206-1

PRICE: \$ 2.50 ea. QTY (10-49)

\$ 0.99 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

Features

- isolation resistor, external 100 ohms
- low insertion loss, 0.4 dB typ.
- good amplitude unbalance, 0.4 dB typ.
- good phase unbalance, 2.5 deg. typ.
- high isolation, 23 dB typ.
- excellent power handling, 20W as splitter
- small size, 0.12"X0.06"X0.035"
- ESD non-sensitive
- temperature stable LTCC technology
- wrap around terminations for excellent solderability
- low cost
- patent pending

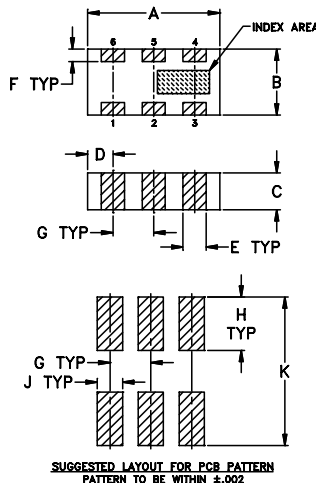
Applications

- ISM
- MMDS
- WLAN

+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

See our web site for RoHS Compliance methodologies
and qualifications.

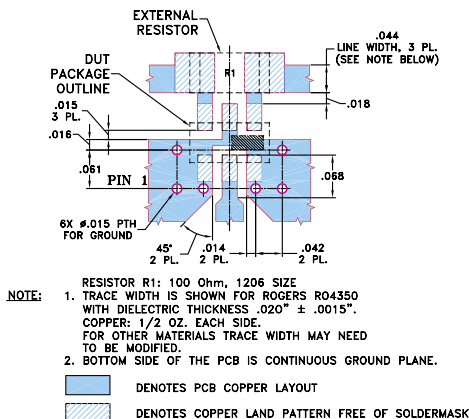
Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	
.126	.063	.037	.024	.022	.012	
3.20	1.60	0.94	0.61	0.56	0.30	
G	H	J	K		wt	
.039	.042	.024	.123		grams	
0.99	1.07	0.61	3.12		.020	

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

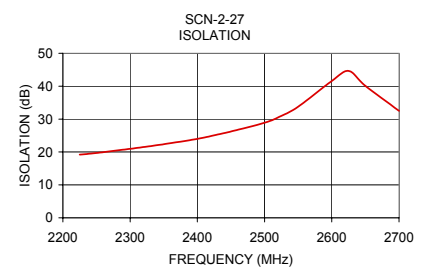
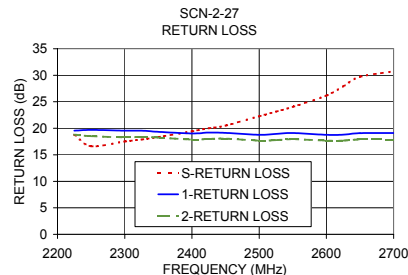


Splitter Electrical Specifications

MODEL NO.	FREQUENCY (MHz)	INSERTION LOSS (dB)		ISOLATION (dB)	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)		RETURN LOSS (dB)			
		ABOVE 3.0 dB				Typ.	Max.	Typ.	Max.	INPUT Typ.	OUTPUT Typ.
		Typ.	Max.								
SCN-2-27(+)	2225-2700	0.5	1.1	21	17	3.5	6.0	0.6	0.8	19	17
	2325-2600	0.4	1.0	23	20	2.5	6.0	0.4	0.7	20	17

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	Return Loss (dB)		
	S-1	S-2				S	1	2
2225.00	3.28	3.56	0.28	19.22	1.19	18.80	19.57	18.80
2250.00	3.28	3.56	0.28	19.72	1.20	16.63	19.71	18.53
2300.00	3.26	3.55	0.29	20.95	1.23	17.52	19.55	18.29
2325.00	3.25	3.54	0.29	21.66	1.25	17.87	19.57	18.38
2350.00	3.25	3.55	0.30	22.34	1.26	18.35	19.32	18.25
2400.00	3.23	3.54	0.31	24.00	1.29	19.42	19.03	17.87
2425.00	3.22	3.54	0.32	25.09	1.31	20.01	19.18	18.00
2450.00	3.22	3.54	0.32	26.24	1.32	20.51	19.15	18.04
2500.00	3.21	3.54	0.33	28.89	1.35	22.26	18.78	17.67
2525.00	3.20	3.54	0.34	30.99	1.36	23.15	18.95	17.77
2550.00	3.20	3.54	0.34	33.77	1.38	24.04	19.11	17.94
2600.00	3.19	3.55	0.36	41.56	1.40	26.15	18.77	17.69
2625.00	3.19	3.55	0.36	44.63	1.41	27.91	18.81	17.68
2650.00	3.19	3.55	0.36	40.07	1.44	29.70	19.08	17.90
2700.00	3.19	3.57	0.38	32.50	1.46	30.72	19.11	17.87



electrical schematic

