

Plug-In

Power Splitter/Combiner

3 Way-0° 50Ω 1 to 300 MHz

SCP-3-1+
SCP-3-1



Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.375W max.

Pin Connections

SUMPORT	6
PORT 1	1
PORT 2	2
PORT 3	5
GROUND	3,4,7,8

Features

- low insertion loss, 0.4 dB typ.
- good isolation, 25 dB typ.
- excellent output VSWR, 1.1:1 typ.

Applications

- VHF/UHF receivers/transmitters
- communications system

CASE STYLE: YY101

PRICE: \$16.95 ea. QTY. (1-9)

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

The +Suffix identifies RoHS Compliance. See our web site
for RoHS Compliance methodologies and qualifications.

Splitter Electrical Specifications

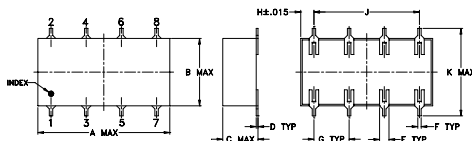
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L M U			L M U		
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-300	30	25	25	20	20	15	0.3	0.6	0.4	0.8	0.7	1.5	1	2	4	0.1	0.15	0.5

L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

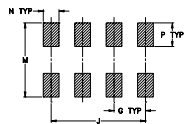
Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)			Amp. Unbal. (dB)	Isolation (dB)		Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	2-3					
1.00	5.13	5.13	5.13	0.01	29.54	28.48	0.02	1.17	1.19	1.19	1.20
20.00	5.05	5.06	5.04	0.02	31.30	31.53	0.11	1.12	1.06	1.06	1.06
40.00	5.09	5.08	5.08	0.01	29.82	30.37	0.19	1.13	1.06	1.06	1.06
60.00	5.11	5.11	5.12	0.00	28.34	29.07	0.33	1.15	1.06	1.06	1.06
80.00	5.11	5.11	5.13	0.02	26.92	27.83	0.44	1.17	1.06	1.06	1.05
100.00	5.18	5.17	5.20	0.03	25.71	26.74	0.56	1.19	1.07	1.06	1.05
120.00	5.24	5.23	5.26	0.03	24.65	25.78	0.67	1.22	1.07	1.06	1.05
140.00	5.25	5.24	5.28	0.04	23.74	24.93	0.75	1.25	1.08	1.07	1.05
160.00	5.26	5.25	5.32	0.07	22.93	24.16	0.80	1.27	1.08	1.07	1.05
180.00	5.31	5.29	5.37	0.08	22.22	23.51	0.86	1.29	1.08	1.07	1.05
200.00	5.47	5.45	5.55	0.10	21.71	23.02	1.00	1.32	1.09	1.08	1.05
220.00	5.44	5.42	5.54	0.12	21.15	22.50	1.04	1.34	1.09	1.08	1.06
240.00	5.43	5.41	5.56	0.16	20.71	22.08	1.09	1.36	1.10	1.08	1.06
260.00	5.46	5.43	5.62	0.19	20.32	21.72	1.23	1.37	1.10	1.09	1.06
280.00	5.60	5.57	5.79	0.22	20.06	21.49	1.26	1.39	1.10	1.09	1.06
300.00	5.71	5.66	5.90	0.24	19.86	21.31	1.27	1.40	1.10	1.09	1.06

Outline Drawing



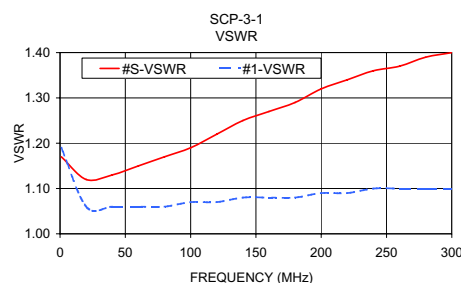
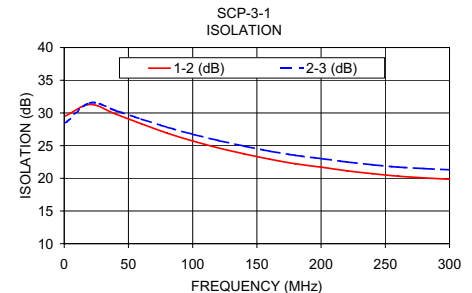
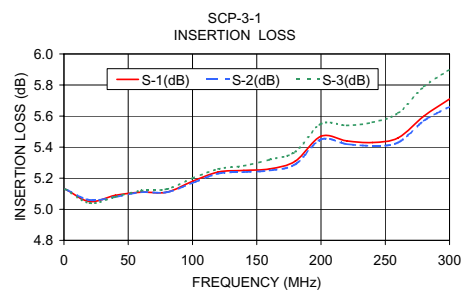
PCB Land Pattern



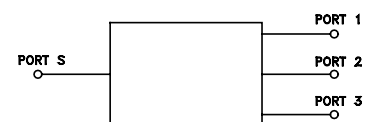
Suggested Layout,
Tolerance to be within ± 0.002

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.75	.38	.20	.010	.050	.020	.200
19.05	9.65	5.08	0.25	1.27	0.51	5.08
H	J	K	M	N	P	wt
.075	.600	.450	.470	.100	.150	grams
1.91	15.24	11.43	11.94	2.54	3.81	1.6



electrical schematic



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