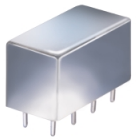
Plug-In

Power Splitter/Combiner

PSC-3-1W+
PSC-3-1W

3 Way-0° 50Ω 5 to 500 MHz



CASE STYLE: A01
PRICE: $40.20 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.

Maximum Ratings

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

Pin Connections

SUM PORT	1
PORT 1	5
PORT 2	7
PORT 3	8
GROUND	2,3,4,6
CASE GROUND	2,3,4,6

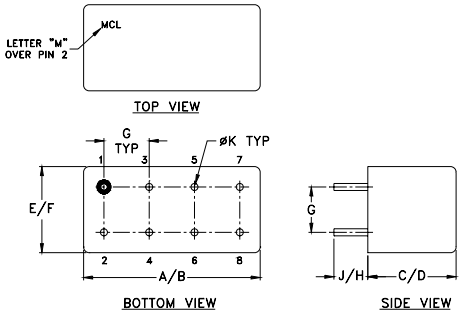
Features

- wideband, 5 to 500 MHz
- low insertion loss, 0.4 dB typ.
- good isolation, 31 dB typ.
- rugged welded construction

Applications

- VHF/UHF
- communication systems

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	**H**	**J**	**K**		**wt**
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		5.2

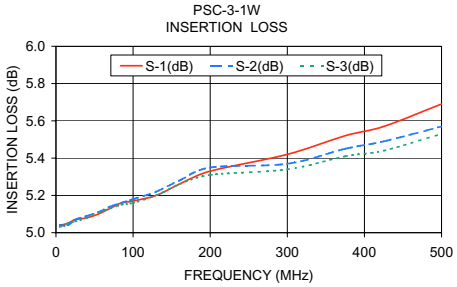
Electrical Specifications

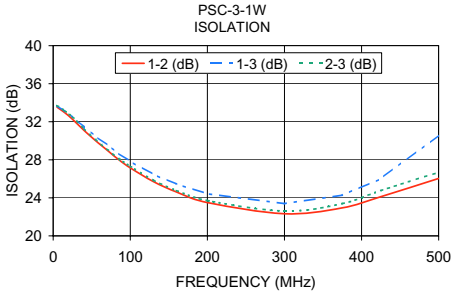
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-500	25	20	31	15	25	15	0.4	0.8	0.4	1.4	0.8	1.4	2	3	5	0.1	0.3	0.6

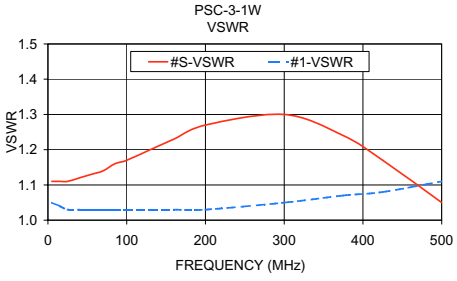
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

Typical Performance Data

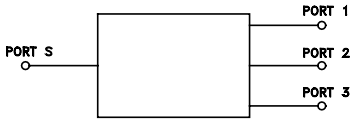
Freq. (MHz)	Insertion Loss (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
5.00	5.04	5.04	5.03	0.01	33.54	33.69	33.71	0.04	1.11	1.05	1.05	1.05
15.00	5.05	5.04	5.05	0.01	32.96	33.10	33.16	0.09	1.11	1.04	1.04	1.04
25.00	5.07	5.07	5.06	0.01	32.27	32.48	32.49	0.14	1.11	1.03	1.03	1.03
40.00	5.08	5.09	5.08	0.01	31.09	31.45	31.26	0.26	1.12	1.03	1.03	1.03
55.00	5.10	5.11	5.11	0.01	30.01	30.47	30.15	0.27	1.13	1.03	1.03	1.03
70.00	5.13	5.14	5.13	0.01	29.01	29.58	29.14	0.40	1.14	1.03	1.03	1.03
85.00	5.16	5.16	5.15	0.01	28.01	28.66	28.14	0.54	1.16	1.03	1.03	1.03
100.00	5.17	5.18	5.16	0.01	27.15	27.83	27.31	0.50	1.17	1.03	1.02	1.02
130.00	5.20	5.22	5.20	0.02	25.71	26.47	25.85	0.65	1.20	1.03	1.02	1.02
160.00	5.26	5.28	5.26	0.02	24.61	25.45	24.77	0.87	1.23	1.03	1.02	1.02
200.00	5.33	5.35	5.31	0.03	23.50	24.43	23.72	0.88	1.27	1.03	1.02	1.02
300.00	5.42	5.37	5.34	0.08	22.32	23.39	22.61	1.41	1.30	1.05	1.05	1.06
375.00	5.52	5.45	5.41	0.11	22.95	24.29	23.40	1.69	1.24	1.07	1.08	1.09
425.00	5.57	5.49	5.44	0.12	24.12	26.01	24.77	1.87	1.17	1.08	1.11	1.11
500.00	5.69	5.57	5.53	0.16	26.04	30.58	26.69	2.05	1.05	1.11	1.14	1.14







electrical schematic



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