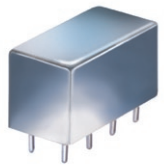
Plug-In

Power Splitter/Combiner

PSC-4-3+
PSC-4-3

4 Way-0° 50Ω 0.25 to 250 MHz



Maximum Ratings

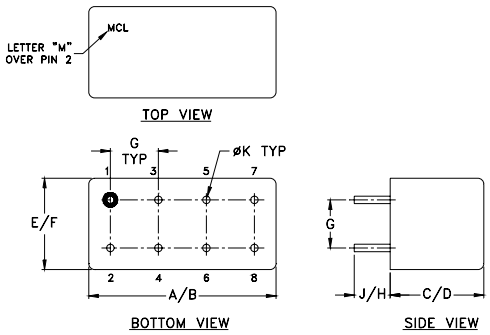
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.250W max.

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

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

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

Features

- low insertion loss, 0.5 dB typ.
- good isolation, 30 dB typ.
- rugged welded construction

Applications

- UHF/VHF
- defense and federal communication
- instrumentation

+ 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.

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 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.
0.25-250	33	20	30	20	27	20	0.4	0.7	0.5	0.75	0.7	1.2	4	6	8	0.15	0.2	0.25

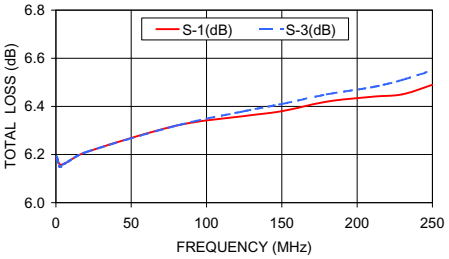
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

Typical Performance Data

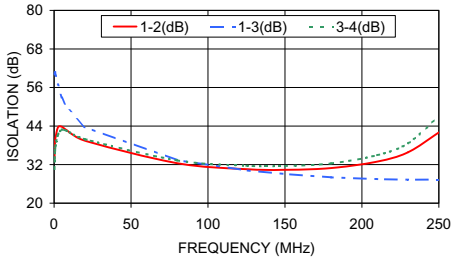
Freq. (MHz)	Total Loss[1] (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	1-3	3-4						
0.25	6.18	6.19	6.19	6.19	0.01	33.83	60.31	30.63	0.09	1.12	1.17	1.17	1.19	1.19
0.40	6.18	6.18	6.19	6.18	0.01	36.78	60.19	33.69	0.05	1.08	1.11	1.11	1.12	1.12
0.70	6.19	6.18	6.19	6.18	0.01	39.22	60.74	36.43	0.07	1.06	1.08	1.08	1.09	1.09
1.00	6.18	6.17	6.18	6.18	0.01	40.57	59.76	37.87	0.05	1.05	1.06	1.06	1.07	1.07
2.50	6.16	6.16	6.15	6.15	0.01	43.63	56.97	41.34	0.05	1.03	1.04	1.04	1.04	1.04
5.00	6.16	6.16	6.16	6.16	0.00	43.80	52.88	42.86	0.04	1.02	1.03	1.03	1.03	1.03
8.00	6.17	6.17	6.17	6.17	0.00	42.77	49.93	42.57	0.06	1.03	1.02	1.02	1.03	1.03
20.00	6.21	6.21	6.21	6.21	0.01	39.44	43.69	39.92	0.11	1.04	1.02	1.02	1.02	1.02
80.00	6.32	6.32	6.32	6.33	0.01	32.43	33.39	33.32	0.22	1.09	1.02	1.02	1.03	1.02
125.00	6.36	6.37	6.38	6.40	0.04	30.59	30.20	31.65	0.26	1.11	1.05	1.04	1.05	1.05
150.00	6.38	6.40	6.41	6.44	0.05	30.38	29.07	31.59	0.40	1.12	1.06	1.06	1.08	1.07
180.00	6.42	6.44	6.45	6.48	0.06	30.94	28.05	32.39	0.35	1.12	1.09	1.09	1.10	1.10
210.00	6.44	6.46	6.48	6.53	0.08	32.95	27.48	34.95	0.39	1.12	1.12	1.12	1.14	1.13
230.00	6.45	6.49	6.51	6.56	0.11	35.85	27.32	38.65	0.37	1.13	1.15	1.14	1.16	1.16
250.00	6.49	6.52	6.55	6.59	0.10	42.02	27.34	47.12	0.27	1.14	1.17	1.16	1.19	1.18

1. Total Loss = Insertion Loss + 6dB splitter loss.

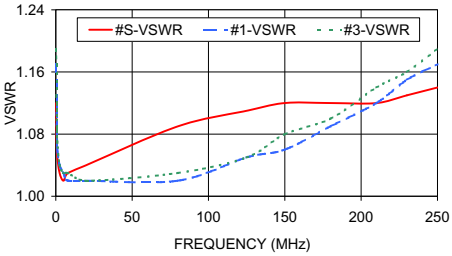
PSC-4-3
TOTAL LOSS



PSC-4-3
ISOLATION



PSC-4-3
VSWR



electrical schematic