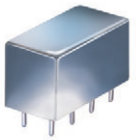
Plug-In

Power Splitter/Combiner

PSC-3-2+
PSC-3-2

3 Way-0° 50Ω 0.01 to 30 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.

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

Pin Connections

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

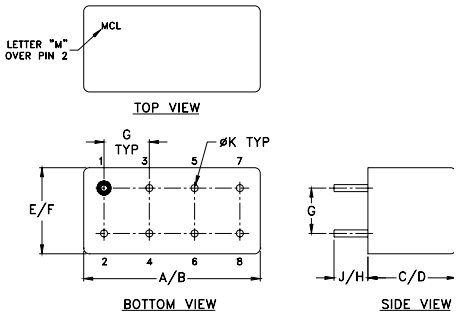
Features

- low insertion loss, 0.15 dB typ.
- high isolation, 40 dB typ.
- rugged welded construction

Applications

- HF
- amateur radio
- 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

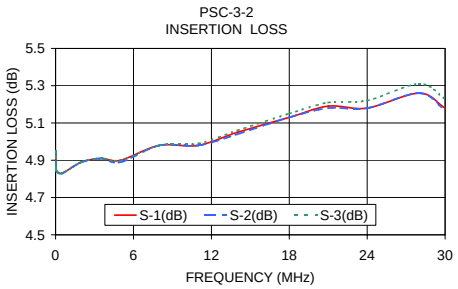
Electrical Specifications

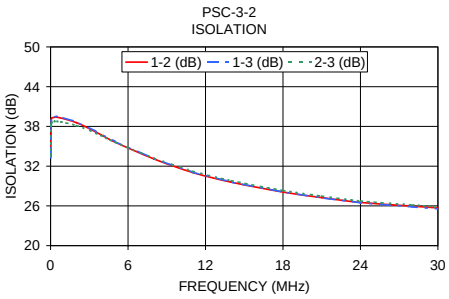
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.01-30	35	30	40	25	30	25	0.25	0.45	0.15	0.45	0.45	0.75	1	2	4	0.2	0.3	0.4

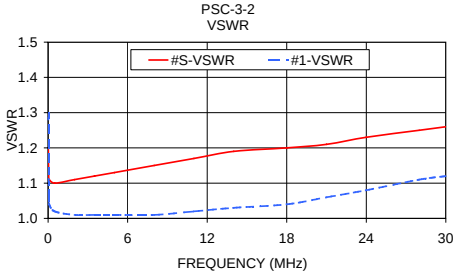
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]
At low range frequency band (f_L to 10 f_L), linearly derate maximum input power by 13 dB.

Typical Performance Data

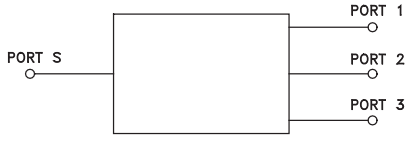
Freq. (MHz)	Insertion Loss (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
0.01	4.95	4.95	4.95	0.00	33.69	33.27	33.48	0.01	1.21	1.30	1.29	1.30
0.05	4.85	4.85	4.85	0.00	38.87	38.95	38.26	0.01	1.11	1.06	1.06	1.06
0.08	4.84	4.84	4.84	0.00	39.24	39.35	38.59	0.01	1.11	1.04	1.04	1.04
0.50	4.83	4.83	4.83	0.00	39.39	39.57	38.77	0.01	1.10	1.02	1.01	1.01
2.00	4.89	4.89	4.89	0.00	38.57	38.70	38.14	0.02	1.11	1.01	1.01	1.01
3.50	4.91	4.91	4.91	0.00	37.17	37.27	36.97	0.03	1.12	1.01	1.01	1.01
5.00	4.90	4.89	4.90	0.00	35.63	35.72	35.61	0.04	1.13	1.01	1.01	1.01
8.00	4.98	4.98	4.98	0.01	33.10	33.15	33.23	0.06	1.15	1.01	1.01	1.01
11.00	4.98	4.98	4.99	0.01	31.05	31.09	31.26	0.09	1.17	1.02	1.02	1.02
14.00	5.05	5.04	5.06	0.01	29.58	29.61	29.82	0.11	1.19	1.03	1.03	1.03
18.00	5.13	5.13	5.15	0.02	28.09	28.10	28.34	0.13	1.20	1.04	1.04	1.05
21.00	5.19	5.18	5.21	0.03	27.25	27.23	27.48	0.15	1.21	1.06	1.06	1.06
24.00	5.18	5.18	5.22	0.04	26.53	26.48	26.75	0.16	1.23	1.08	1.08	1.08
28.00	5.26	5.26	5.31	0.06	25.97	25.86	26.15	0.17	1.25	1.11	1.10	1.11
30.00	5.18	5.17	5.23	0.06	25.70	25.56	25.85	0.17	1.26	1.12	1.12	1.13







electrical schematic



REV. A
M98898
PSC-3-2
HY/TD/CP
090826