Plug-In

Power Splitter/Combiner

PSC-3-1A+
PSC-3-1A

3 Way-0° 50Ω 1 to 300 MHz

CASE STYLE: A01
PRICE: $32.20 ea. QTY. (1-9)

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

Maximum Ratings

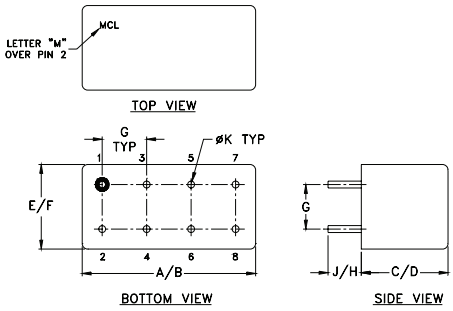
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.375W max.

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

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

- wideband, 1 to 300 MHz
- low insertion loss, 0.2 dB typ.
- good isolation, 33 dB typ.
- rugged welded construction

Applications

- VHF
- federal & defense communications

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	38	30	33	23	29	22	0.2	0.5	0.2	0.7	0.6	1.5	1	3	5	0.2	0.3	0.6

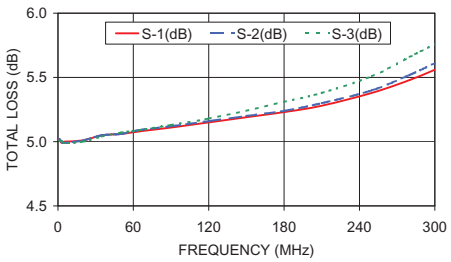
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

Typical Performance Data

Freq. (MHz)	Total Loss[1] (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					
1.00	5.02	5.02	5.01	0.01	36.87	35.64	37.13	0.02	1.06	1.14	1.13	1.14
3.00	4.99	5.00	5.00	0.01	43.72	39.72	43.18	0.09	1.03	1.08	1.07	1.08
5.00	5.00	4.99	4.99	0.01	48.06	41.28	46.49	0.07	1.03	1.06	1.06	1.06
20.00	5.01	5.01	5.00	0.02	41.81	39.74	42.21	0.18	1.03	1.04	1.03	1.04
35.00	5.05	5.05	5.04	0.01	37.18	37.06	37.94	0.27	1.04	1.04	1.03	1.04
50.00	5.06	5.06	5.07	0.01	34.48	35.01	35.33	0.39	1.05	1.03	1.03	1.04
65.00	5.08	5.09	5.09	0.01	32.63	33.53	33.49	0.50	1.06	1.03	1.02	1.04
90.00	5.11	5.12	5.13	0.02	30.44	31.73	31.30	0.70	1.07	1.03	1.02	1.04
120.00	5.15	5.16	5.18	0.03	28.82	30.33	29.71	0.84	1.07	1.03	1.03	1.06
150.00	5.19	5.20	5.24	0.05	27.98	29.68	28.92	1.16	1.07	1.04	1.05	1.08
180.00	5.23	5.24	5.31	0.08	27.84	29.77	28.89	1.13	1.05	1.06	1.08	1.11
210.00	5.28	5.30	5.38	0.09	28.50	30.74	29.83	1.45	1.05	1.09	1.11	1.15
250.00	5.38	5.40	5.51	0.13	31.22	34.62	33.70	1.50	1.11	1.14	1.16	1.22
280.00	5.48	5.52	5.66	0.17	35.47	42.39	42.28	1.52	1.20	1.18	1.20	1.27
300.00	5.56	5.61	5.76	0.20	35.87	39.02	39.97	1.58	1.28	1.21	1.24	1.31

1. Total Loss = Insertion Loss + 4.8dB splitter loss.

PSC-3-1A
TOTAL LOSS



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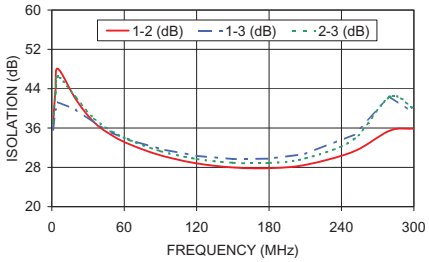
ISOLATION



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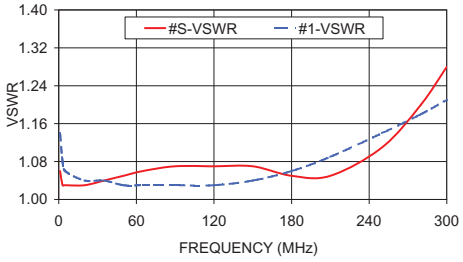
VSWR



electrical schematic