

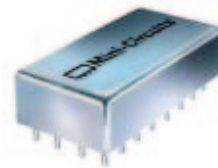
Plug-In

NON-CATALOG

# Power Splitter/Combiner

PSC-8A-4+

8 Way-0° 50Ω 5 to 500 MHz



CASE STYLE: E10  
PRICE: CONTACT SALES DPT.

## 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	0.62W max.

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

## Pin Connections

SUM PORT	29
PORT 1	7
PORT 2	16
PORT 3	31
PORT 4	24
PORT 5	9
PORT 6	2
PORT 7	26
PORT 8	17
GROUND	all other pins
CASE GROUND	all other pins
NOT USED	15

## Features

- wideband, 5 to 500 MHz
- good isolation, 23 dB typ.
- rugged welded construction
- excellent amplitude unbalance. 0.3 dB typ.

## Applications

- VHF/UHF
- defense and federal communications

+RoHS Compliant

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

## Electrical Specifications

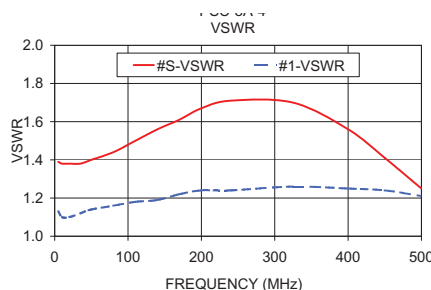
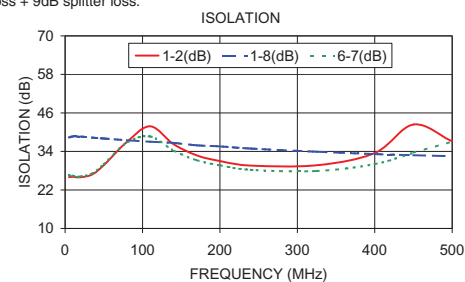
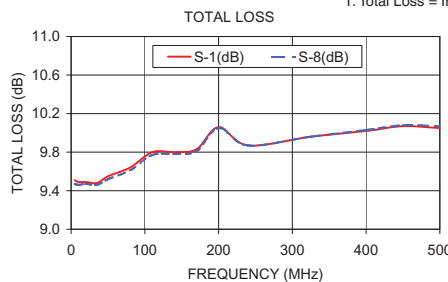
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 9.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)								
	L	M	U	L	M	U	L	M	U	L	M	U						
$f_L$ - $f_U$	Typ.	Min.	Typ. Min.	Typ. Min.	Typ. Max.	Typ. Max.	Typ. Max.	Max.	Max.	Max.	Max.	Max.						
5-500	25	20	23	18	20	15	0.7	1.2	1.0	1.8	1.4	2.5	3.0	8.0	16.0	0.2	0.3	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)	Total Loss <sup>1</sup> (dB)						Amplitude Unbalance (dB)	Isolation (dB)				VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-8	3-4	6-7			
5.00	9.51	9.50	9.48	9.48	9.47	9.47	0.04	25.99	38.34	26.38	26.57	1.39	1.13	1.14
10.00	9.49	9.49	9.47	9.48	9.47	9.46	0.04	26.07	38.65	26.30	26.38	1.38	1.10	1.10
20.00	9.49	9.49	9.47	9.49	9.47	9.47	0.04	25.95	38.62	26.13	26.21	1.38	1.10	1.10
35.00	9.48	9.48	9.46	9.47	9.45	9.46	0.03	26.80	38.29	27.02	27.09	1.38	1.12	1.12
50.00	9.55	9.56	9.52	9.54	9.52	9.52	0.04	29.71	38.01	30.08	29.99	1.40	1.14	1.13
80.00	9.64	9.65	9.62	9.63	9.61	9.61	0.04	37.01	37.49	37.92	36.72	1.44	1.16	1.15
110.00	9.80	9.81	9.76	9.80	9.77	9.77	0.05	41.82	37.01	40.79	38.66	1.50	1.18	1.17
140.00	9.80	9.84	9.78	9.81	9.78	9.78	0.07	36.27	36.66	35.02	34.25	1.56	1.19	1.18
170.00	9.83	9.85	9.81	9.83	9.80	9.81	0.06	32.78	35.91	31.84	31.29	1.61	1.22	1.21
200.00	10.06	10.10	10.04	10.10	10.05	10.05	0.07	31.00	35.56	30.12	29.67	1.67	1.24	1.24
240.00	9.87	9.91	9.87	9.90	9.86	9.87	0.06	29.58	34.89	28.71	28.26	1.71	1.24	1.23
325.00	9.96	10.00	9.97	10.02	9.96	9.96	0.08	29.68	33.91	28.57	27.90	1.70	1.26	1.26
400.00	10.02	10.08	10.04	10.11	10.04	10.03	0.12	33.51	33.16	31.54	30.06	1.56	1.25	1.26
450.00	10.07	10.14	10.12	10.16	10.10	10.08	0.14	42.38	32.81	37.15	33.57	1.41	1.24	1.25
500.00	10.05	10.14	10.07	10.18	10.09	10.07	0.18	37.15	32.52	38.45	37.11	1.25	1.21	1.24

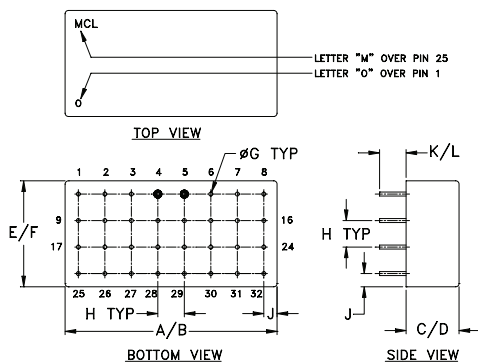
1. Total Loss = Insertion Loss + 9dB splitter loss.



## electrical schematic



## Outline Drawing



## Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
1.580	1.620	.380	.410	.770	.810	.030
40.13	41.15	9.65	10.41	19.56	20.57	0.76
H	J	K	L	wt		
.200	.10	.20	.14	grams		
5.08	2.54	5.08	3.56	23.0		

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