

# Plug-In Power Splitter/Combiner

## MSC-2-11+ MSC-2-11

2 Way-0° 50Ω 5 to 2000 MHz



CASE STYLE: A03  
PRICE: \$34.20 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	0.125W max.

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

### Pin Connections

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

### Features

- very wideband, 5 to 2000 MHz
- low insertion loss, 0.6 dB typ.
- rugged welded case

### Applications

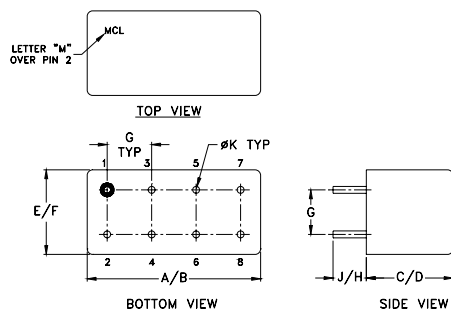
- cellular
- GPS
- instrumentation
- defense communications

### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
$f_L$ - $f_U$																		
5-2000	18	16	20	16	18	11	0.6	0.8	0.6	0.8	1.2	1.8	2.0	3.0	5.0	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  $f_U$ ]

### Outline Drawing



### Outline Dimensions (inch/mm)

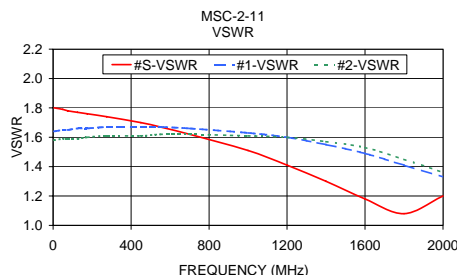
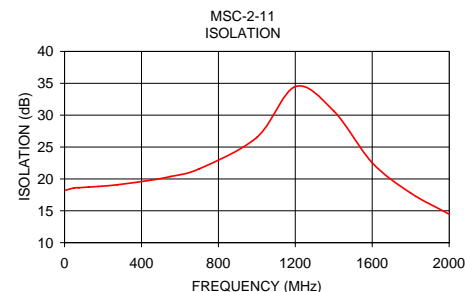
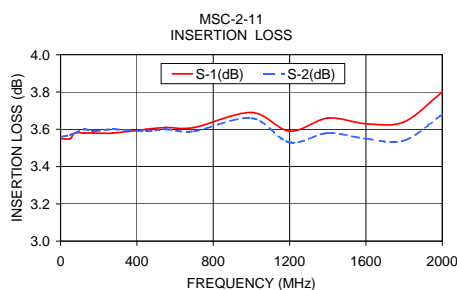
A	B	C	D	E	F
.480	.500	.390	.405	.210	.230
12.19	12.70	9.91	10.29	5.33	5.84

G	H	J	K	wt
.100	.20	.14	.020	grams
2.54	5.08	3.56	0.51	2.3

### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
5.00	3.55	3.56	0.01	18.23	0.03	1.80	1.64	1.58
50.00	3.55	3.57	0.02	18.58	0.02	1.79	1.65	1.59
75.00	3.58	3.58	0.00	18.62	0.09	1.78	1.65	1.59
125.00	3.58	3.60	0.02	18.72	0.03	1.77	1.66	1.59
175.00	3.58	3.59	0.01	18.82	0.00	1.76	1.66	1.60
275.00	3.58	3.60	0.01	19.08	0.02	1.74	1.67	1.61
450.00	3.60	3.59	0.00	19.80	0.13	1.70	1.67	1.61
550.00	3.61	3.60	0.01	20.38	0.02	1.67	1.67	1.62
700.00	3.61	3.59	0.02	21.58	0.04	1.62	1.66	1.62
1000.00	3.69	3.66	0.03	26.52	0.13	1.51	1.63	1.61
1200.00	3.59	3.53	0.05	34.48	0.14	1.41	1.60	1.60
1400.00	3.66	3.58	0.07	30.65	0.25	1.30	1.55	1.57
1600.00	3.63	3.55	0.08	22.54	0.26	1.18	1.49	1.53
1800.00	3.64	3.54	0.11	17.78	0.45	1.08	1.41	1.45
2000.00	3.80	3.68	0.12	14.47	0.44	1.20	1.33	1.36



### electrical schematic



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