

Plug-In

Power Splitter/Combiner

2 Way-0° 50Ω 5 to 2000 MHz

MSC-2-11+
MSC-2-11



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

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.

Electrical Specifications

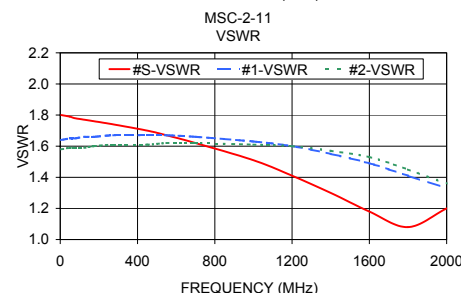
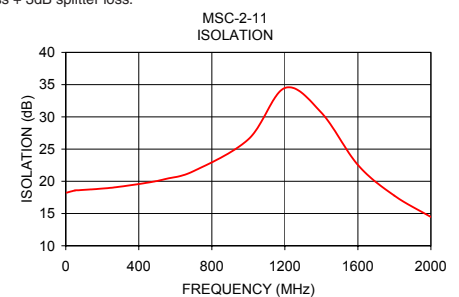
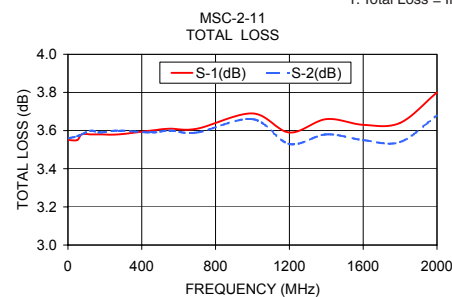
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _L -f _U																		
5-2000	18	16	20	16	18	11	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]

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (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

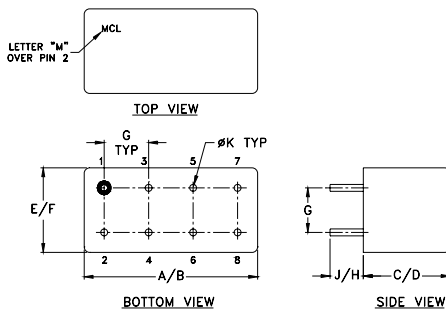
1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



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

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