

Plug-In

Power Splitter/Combiner

2 Way-0° 50Ω 0.1 to 450 MHz

MSC-2-1+
MSC-2-1



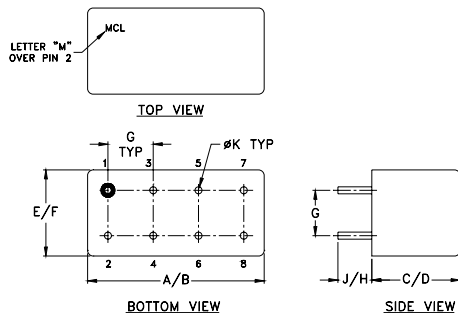
Maximum Ratings

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.

Pin Connections

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

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

Features

- wideband, 0.1 to 450 MHz
- low insertion loss, 0.4 dB typ.
- rugged shielded case

Applications

- VHF/UHF
- amateur radio
- communication receivers & transmitters

CASE STYLE: A03

PRICE: \$23.20 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.

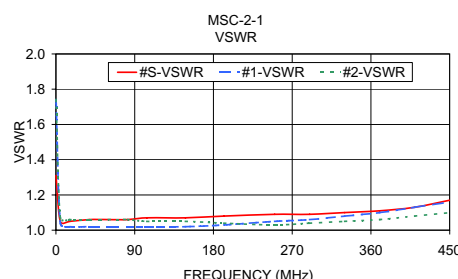
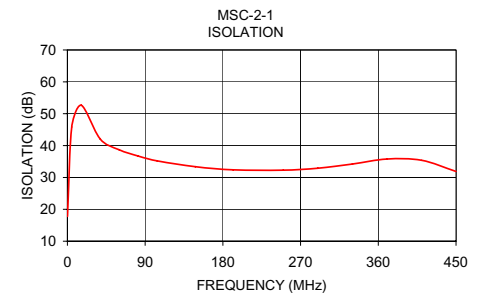
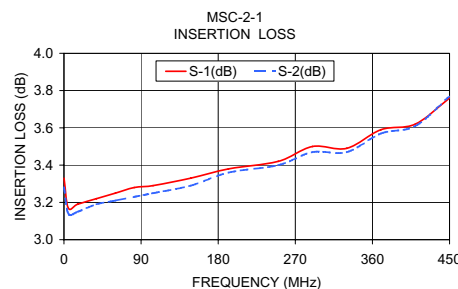
Splitter Electrical Specifications

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.
0.1-450	20	15	30	20	30	20	0.3	0.5	0.4	0.75	0.6	1.0	2.0	3.0	4.0	0.15	0.2	0.3

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)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.10	3.33	3.28	0.05	17.78	0.15	1.31	1.74	1.74
5.00	3.17	3.14	0.04	45.83	0.06	1.05	1.04	1.07
16.00	3.19	3.15	0.04	52.65	0.18	1.05	1.02	1.06
38.00	3.22	3.19	0.03	42.07	0.35	1.06	1.02	1.06
60.00	3.25	3.21	0.04	38.68	0.44	1.06	1.02	1.06
82.00	3.28	3.23	0.05	36.72	0.55	1.06	1.02	1.06
104.00	3.29	3.25	0.04	35.20	0.61	1.07	1.02	1.05
148.00	3.33	3.29	0.04	33.38	0.93	1.07	1.02	1.05
192.00	3.38	3.36	0.03	32.40	0.86	1.08	1.03	1.04
250.00	3.42	3.40	0.02	32.30	1.31	1.09	1.05	1.03
290.00	3.50	3.47	0.03	32.91	1.48	1.09	1.06	1.04
330.00	3.49	3.47	0.02	34.21	1.76	1.10	1.08	1.05
370.00	3.59	3.57	0.02	35.79	1.65	1.11	1.10	1.06
410.00	3.62	3.61	0.00	35.41	2.07	1.13	1.13	1.08
450.00	3.76	3.77	0.00	31.89	2.03	1.17	1.16	1.10



electrical schematic

