

2 Way-180° 50Ω 1 to 200 MHz

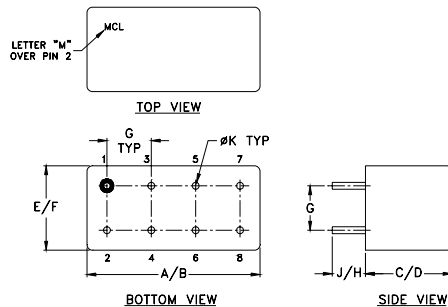
Maximum Ratings

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

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

- low insertion loss, 0.5 dB typ.
- high isolation, 35 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- rugged shield case

Applications

- VHF
- signal processing
- push-pull amplifiers

Electrical Specifications

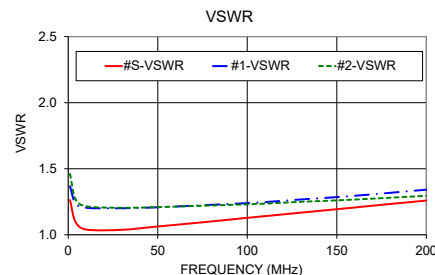
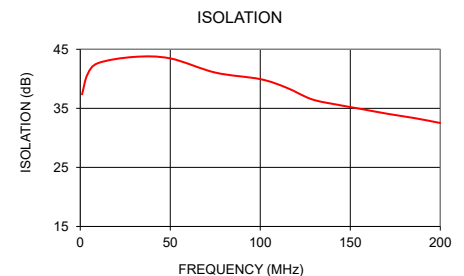
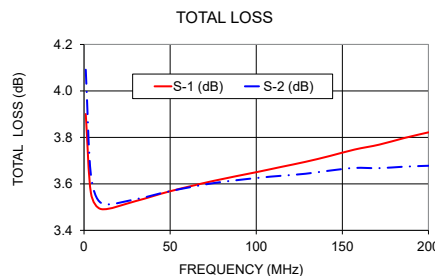
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-200	35	30	35	25	30	23	0.75	1.3	0.5	0.8	0.75	1.2	2.5	2.5	4	0.4	0.15	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)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1.00	3.90	4.09	0.19	37.38	1.78	1.26	1.37	1.46
4.00	3.56	3.64	0.08	40.73	0.93	1.10	1.24	1.27
10.00	3.49	3.52	0.03	42.67	0.58	1.04	1.20	1.22
30.00	3.53	3.53	0.01	43.71	0.53	1.04	1.20	1.20
50.00	3.57	3.57	0.00	43.46	0.70	1.06	1.21	1.21
75.00	3.61	3.60	0.01	41.06	0.96	1.09	1.22	1.22
100.00	3.65	3.63	0.03	39.95	1.26	1.13	1.24	1.23
114.29	3.67	3.63	0.04	38.54	1.39	1.15	1.25	1.24
128.57	3.69	3.64	0.05	36.54	1.54	1.17	1.27	1.25
142.86	3.72	3.66	0.06	35.61	1.73	1.18	1.28	1.26
157.14	3.75	3.67	0.08	34.83	1.95	1.20	1.29	1.26
171.43	3.77	3.67	0.10	34.04	2.01	1.22	1.31	1.27
185.71	3.80	3.67	0.12	33.35	2.22	1.24	1.32	1.28
200.00	3.82	3.68	0.14	32.52	2.32	1.26	1.34	1.29

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



electrical schematic



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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