

Power Splitter/Combiner

2 Way-0° 50Ω 1 to 400 MHz

TSC-2-1+



CASE STYLE: B02

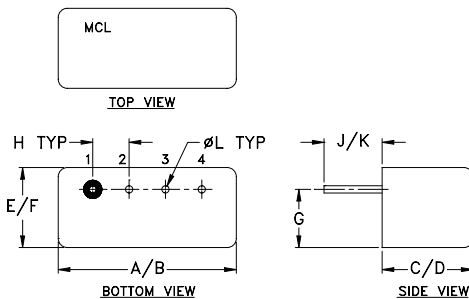
Maximum Ratings

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	2
PORT 2	4
GROUND	3
CASE GROUND	3

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.480	.500	.240	.255	.210	.230
12.19	12.70	6.10	6.48	5.33	5.84
G	H	J	K	L	wt
.16	.100	.14	.20	.020	grams
4.06	2.54	3.56	5.08	0.51	1.9

Features

- wideband 1 to 400 MHz
- hermetic, metal case
- good isolation, 30 dB typ.

Applications

- VHF/UHF
- receivers/transmitters
- military, hi-rel applications

Electrical Specifications

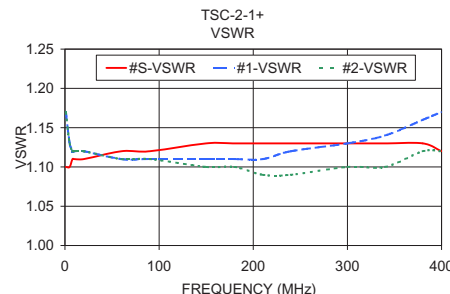
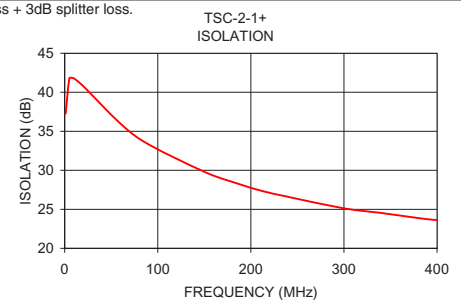
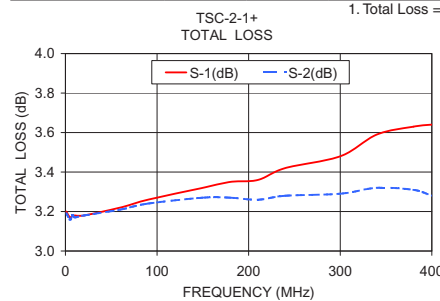
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-400	30	25	30	25	30	20	0.25	0.5	0.4	0.75	0.8	1.0	2.0	3.0	4.0	0.15	0.2	0.6

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]

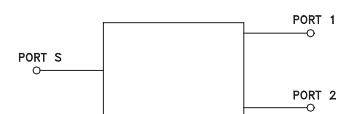
Typical Performance Data

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	3.20	3.19	0.01	37.25	0.03	1.10	1.17	1.17
5.00	3.17	3.16	0.01	41.78	0.05	1.10	1.13	1.13
8.00	3.18	3.18	0.00	41.83	0.02	1.11	1.12	1.12
10.00	3.18	3.17	0.01	41.78	0.06	1.11	1.12	1.12
20.00	3.18	3.18	0.00	40.78	0.09	1.11	1.12	1.12
60.00	3.22	3.21	0.01	35.98	0.37	1.12	1.11	1.11
90.00	3.26	3.24	0.02	33.33	0.53	1.12	1.11	1.11
150.00	3.32	3.27	0.05	29.81	0.84	1.13	1.11	1.10
180.00	3.35	3.27	0.08	28.52	1.01	1.13	1.11	1.10
210.00	3.36	3.26	0.10	27.42	1.16	1.13	1.11	1.09
240.00	3.42	3.28	0.14	26.60	1.26	1.13	1.12	1.09
300.00	3.48	3.29	0.20	25.13	1.45	1.13	1.13	1.10
340.00	3.59	3.32	0.27	24.53	1.59	1.13	1.14	1.10
380.00	3.63	3.31	0.31	23.88	1.63	1.13	1.16	1.12
400.00	3.64	3.28	0.36	23.60	1.53	1.12	1.17	1.12

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.
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