

Plug-In

Power Splitter/Combiner

TSC-2-1+

2 Way-0° 50Ω 1 to 400 MHz



CASE STYLE: B02
PRICE: \$20.20 ea. QTY. (1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

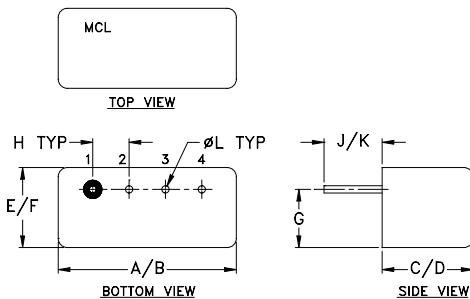
Maximum Ratings

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	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

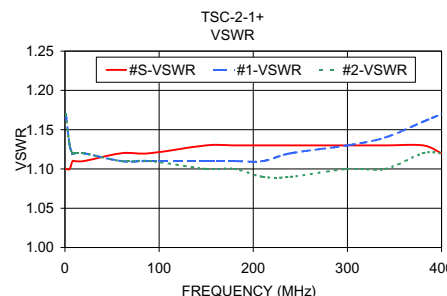
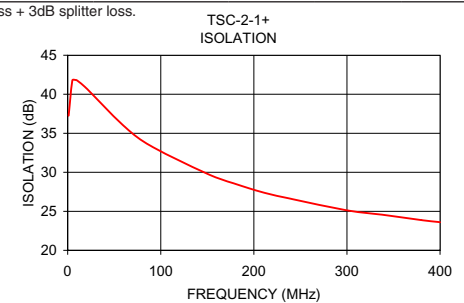
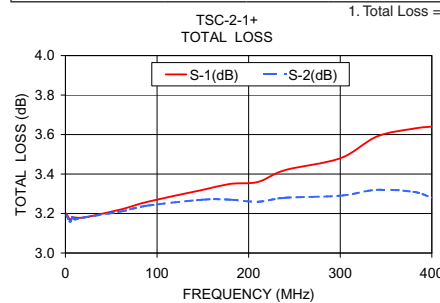
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			
	L		M		U		L		M		U		L	M	U	L	M	U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	
f_L - f_U																			
1-400	30	25	30	25	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]

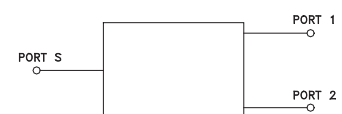
Typical Performance Data

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



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

REV. B
M127604
TSC-2-1+
HY/TD/CP/AM
100614