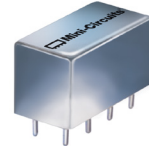


Plug-In

Power Splitter/Combiner

2 Way-90° 50Ω 2 to 8 MHz

PSCQ-2-8+



CASE STYLE: A01

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

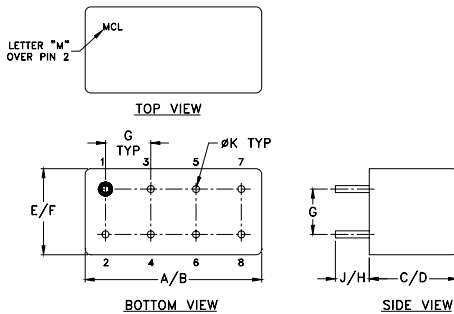
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	50mW max.
Internal Dissipation	0.125W max.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

SUM PORT	1
PORT 1 (+90°)	2
PORT 2 (0°)	5
GROUND	3,4,7,8
CASE GROUND	3,4,7,8
NOT USED	6

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, 0.3 dB typ.
- high isolation, 36 dB typ.
- low amplitude unbalance, 0.5 dB max.
- rugged shielded case

Applications

- modulators
- balanced amplifiers

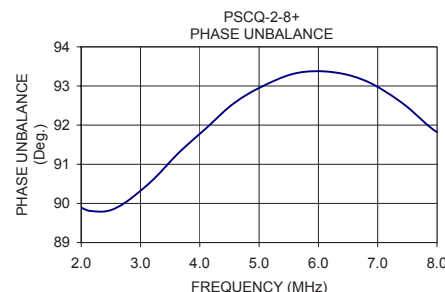
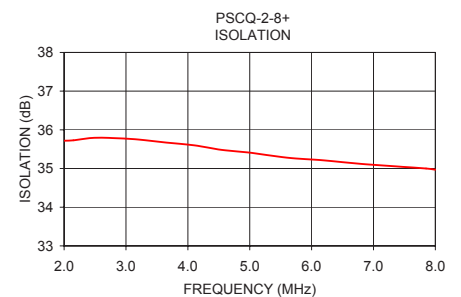
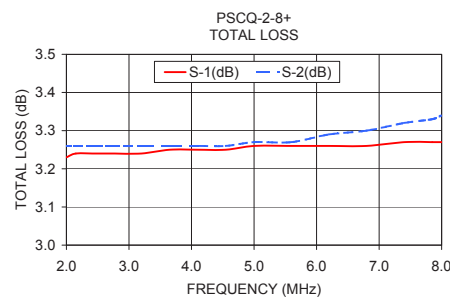
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ. Min.	Typ. Max.	Max.	Max.
2-8	36 27	0.3 0.7	6	0.5

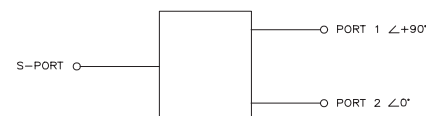
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
2.00	3.23	3.26	0.02	35.72	89.89	1.22	1.21	1.24
2.15	3.24	3.26	0.02	35.73	89.81	1.21	1.20	1.24
2.45	3.24	3.26	0.02	35.79	89.81	1.21	1.18	1.25
2.75	3.24	3.26	0.02	35.79	90.03	1.20	1.16	1.26
3.20	3.24	3.26	0.02	35.75	90.59	1.20	1.13	1.27
3.65	3.25	3.26	0.02	35.67	91.30	1.19	1.11	1.27
4.10	3.25	3.26	0.01	35.60	91.91	1.18	1.10	1.27
4.55	3.25	3.26	0.01	35.48	92.53	1.18	1.09	1.27
5.00	3.26	3.27	0.01	35.41	92.95	1.17	1.08	1.26
5.60	3.26	3.27	0.01	35.28	93.32	1.17	1.09	1.24
6.20	3.26	3.29	0.02	35.21	93.36	1.17	1.09	1.23
6.80	3.26	3.30	0.04	35.12	93.13	1.17	1.10	1.21
7.40	3.27	3.32	0.06	35.05	92.58	1.17	1.12	1.19
7.85	3.27	3.33	0.06	35.00	91.99	1.17	1.13	1.18
8.00	3.27	3.34	0.07	34.97	91.82	1.17	1.13	1.18

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



electrical schematic



Notes

- A. 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.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. The parts covered by this specification document 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

