

Power Splitter/Combiner

ZX10-2-98-S+

2 Way-0° 50Ω 4750 to 9800 MHz

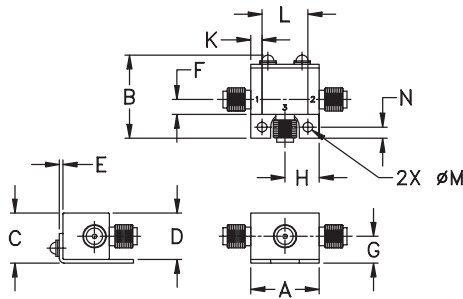
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1.0W max.
Internal Dissipation (as a combiner)	0.125W max.
DC Current	500 mA (250mA for each port)
DC Current	1.0A (500mA for each port)
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.74	.90	.54	.50	.04	.16	.29
18.80	22.86	13.72	12.70	1.02	4.06	7.37

H	J	K	L	M	N	wt
.37	--	.122	.496	.106	.122	grams
9.40	--	3.10	12.60	2.69	3.10	20.0

Features

- low insertion loss, 0.3 dB typ.
- excellent amplitude unbalance
- very good phase unbalance
- small size
- low cost
- protected under U.S. Patent 6,790,049 & 6,963,255

Applications

- SHF
- communications
- defense
- cable tv relay

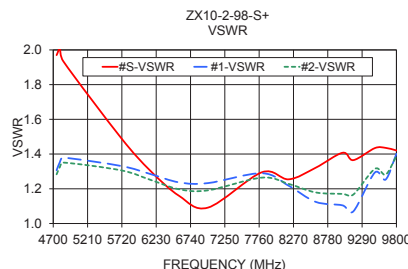
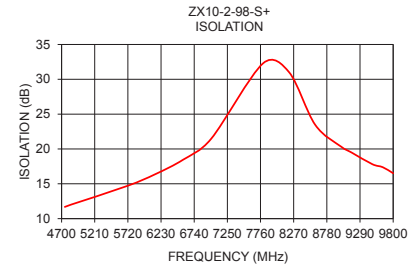
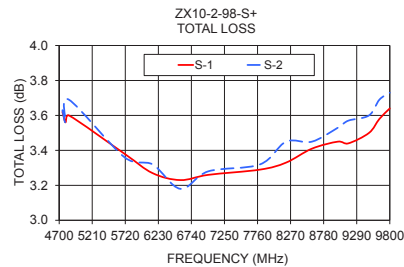
Electrical Specifications (T_{AMB} = 25°C)

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f _c -f _u	Typ.	Min.	Typ.	Max.	Max.	Max.
4750-9800	23	10	0.3	1.2	9.0	0.5
7000-9000	23	18	0.3	0.8	8.0	0.4

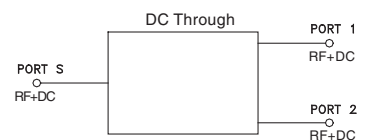
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
4750.00	3.62	3.63	0.01	11.68	0.03	1.97	1.31	1.28
4800.00	3.56	3.56	0.01	11.85	0.16	2.01	1.35	1.33
4850.00	3.60	3.69	0.09	12.02	0.20	1.93	1.38	1.35
5710.00	3.38	3.36	0.03	14.69	0.09	1.49	1.33	1.31
6140.00	3.27	3.32	0.05	16.37	0.09	1.30	1.29	1.25
6570.00	3.23	3.18	0.05	18.46	0.22	1.16	1.24	1.20
7000.00	3.26	3.28	0.02	21.45	0.22	1.09	1.23	1.19
7800.00	3.29	3.32	0.03	32.30	0.26	1.29	1.29	1.26
8200.00	3.33	3.45	0.12	31.01	0.02	1.25	1.22	1.23
8600.00	3.41	3.45	0.05	23.48	0.52	1.32	1.12	1.18
9000.00	3.45	3.53	0.08	20.33	0.98	1.41	1.10	1.17
9160.00	3.44	3.57	0.13	19.49	0.70	1.37	1.07	1.17
9480.00	3.50	3.60	0.10	17.81	0.50	1.43	1.29	1.31
9640.00	3.58	3.69	0.11	17.38	0.85	1.44	1.25	1.28
9800.00	3.64	3.73	0.09	16.51	1.35	1.42	1.40	1.39

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.
- The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

