

Coaxial

Power Splitter/Combiner

ZX10-2-442-S+

2 Way-0° 50Ω 1550 to 4400 MHz

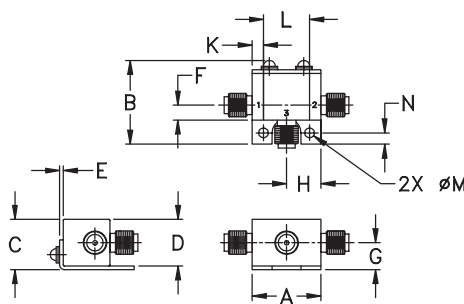
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1.5W max.
Internal Dissipation (as a combiner)	0.75W max.
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)

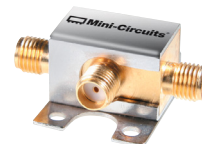
A	B	C	D	E	F	G
.74	.90	.54	.50	.04	.16	.29
18.80	22.86	13.72	12.70	1.02	4.06	7.37
H	J	K	L	M	N	wt
.37	--	.122	.496	.106	.122	grams
9.40	--	3.10	12.60	2.69	3.10	20.0

Features

- wide bandwidth, 1550 to 4400 MHz
- excellent amplitude unbalance, 0.02 dB typ.
- very good phase unbalance, 1 deg. typ.
- small size
- low cost
- protected under U.S. Patent 6,790,049

Applications

- WCDMA
- DCS
- PCS
- WiMax
- radar
- instrumentation
- navigation



CASE STYLE: FL905

Connectors	Model
SMA	ZX10-2-442-S+

+RoHS Compliant

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

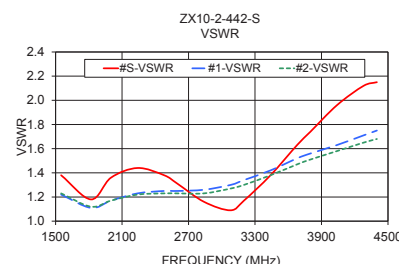
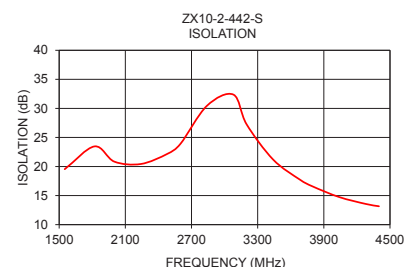
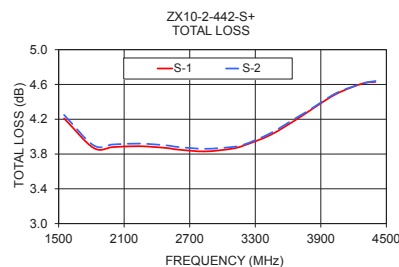
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
1550-4400	20	11	1.0	2.1	6.0	0.3

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						
1550.0	4.21	4.25	0.04	19.54	0.85	1.38	1.22	1.23
1820.0	3.87	3.90	0.03	23.46	0.91	1.18	1.11	1.12
2000.0	3.88	3.91	0.03	20.84	0.99	1.36	1.17	1.17
2240.0	3.89	3.92	0.03	20.43	1.15	1.44	1.23	1.22
2480.0	3.87	3.90	0.03	22.17	1.31	1.38	1.25	1.23
2600.0	3.85	3.88	0.03	23.91	1.38	1.31	1.25	1.23
2840.0	3.83	3.86	0.02	30.45	1.53	1.16	1.26	1.23
3080.0	3.86	3.88	0.02	32.37	1.73	1.09	1.30	1.27
3200.0	3.90	3.91	0.02	27.25	1.90	1.17	1.34	1.30
3440.0	4.02	4.04	0.02	21.20	2.19	1.38	1.42	1.38
3680.0	4.20	4.22	0.03	17.78	2.42	1.63	1.52	1.47
3800.0	4.30	4.31	0.01	16.56	2.56	1.74	1.56	1.51
4040.0	4.49	4.50	0.00	14.74	2.89	1.96	1.63	1.58
4280.0	4.61	4.61	0.00	13.56	3.31	2.12	1.71	1.65
4400.0	4.63	4.64	0.01	13.16	3.59	2.15	1.75	1.68

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-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



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