

Coaxial

# Power Splitter/Combiner

## ZX10-2-622+

2 Way-0° 50Ω 2900 to 6200 MHz

### Maximum Ratings

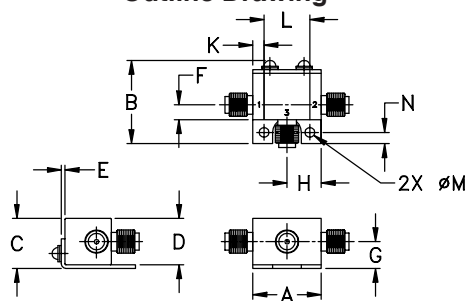
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1.5W max.
Internal Dissipation (as a combiner)	0.75W max.

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, 2900 to 6200 MHz
- excellent amplitude unbalance, 0.05 dB typ.
- very good phase unbalance, 1 deg. typ.
- small size
- low cost
- protected under U.S. Patent 6,790,049

### Applications

- WiMax
- radar
- ISM
- WLAN
- instrumentation
- satellite communications

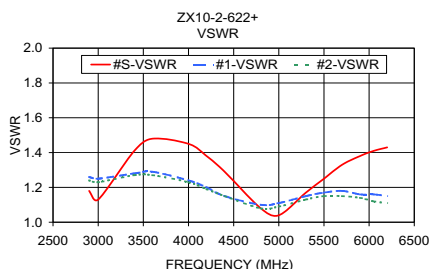
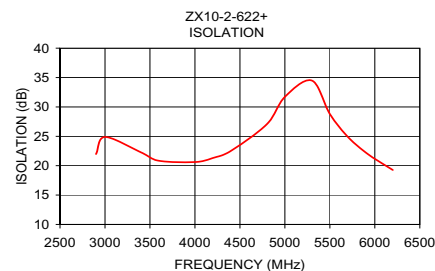
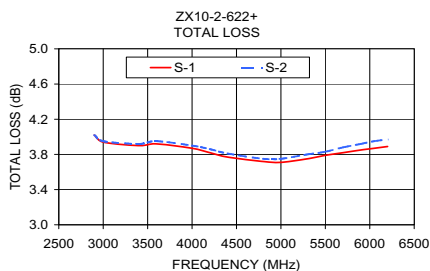
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.	Max.	Max.
$f_L$ - $f_U$						
2900-6200	24	16	0.9	1.5	9.0	0.3
4400-5900	28	19	0.8	1.5	9.0	0.3

### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
2900.00	4.02	4.02	0.00	21.98	0.69	1.18	1.26	1.24
3000.00	3.94	3.95	0.00	24.88	0.70	1.13	1.25	1.23
3400.00	3.90	3.92	0.02	22.27	0.77	1.41	1.28	1.27
3600.00	3.92	3.95	0.03	20.84	0.79	1.48	1.29	1.27
4000.00	3.87	3.90	0.03	20.62	0.87	1.45	1.24	1.23
4200.00	3.82	3.86	0.04	21.31	0.88	1.38	1.20	1.19
4400.00	3.77	3.81	0.04	22.52	0.84	1.29	1.15	1.15
4800.00	3.72	3.75	0.04	27.06	0.90	1.08	1.10	1.08
5000.00	3.71	3.75	0.04	31.71	0.95	1.04	1.11	1.09
5300.00	3.75	3.80	0.04	34.49	1.04	1.17	1.15	1.13
5500.00	3.79	3.83	0.05	28.78	1.11	1.25	1.17	1.15
5700.00	3.82	3.88	0.05	24.90	1.19	1.33	1.18	1.15
5900.00	3.85	3.92	0.07	22.23	1.26	1.38	1.16	1.14
6050.00	3.87	3.95	0.07	20.68	1.27	1.41	1.16	1.12
6200.00	3.89	3.97	0.08	19.27	1.27	1.43	1.15	1.11

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



### electrical schematic



For detailed performance specs & shopping online see web site

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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](http://www.minicircuits.com/MCLStore/terms.jsp).

REV. A  
M127604  
ZX10-2-622+  
ED-13246A/3  
DY/CP  
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