

Coaxial

# Power Splitter/Combiner

## ZX10-2-252+

2 Way-0° 50Ω 500 to 2500 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

### Features

- wide bandwidth, 500 to 2500 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

- PCN
- GPS
- Cellular
- DCS
- GSM
- communications
- WCDMA

CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX10-2-252-S+	\$26.95	(1-24)

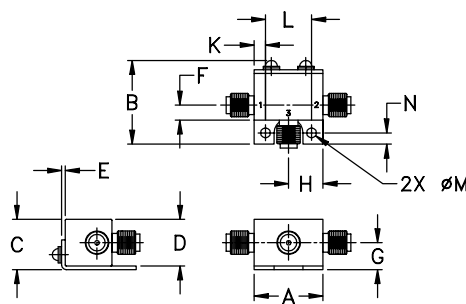
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

### 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.
$f_L-f_U$						
500-2500	22	10	0.9	1.7	4.0	0.2

### Outline Drawing



### Outline Dimensions (inch/mm)

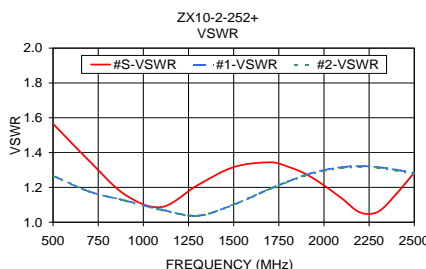
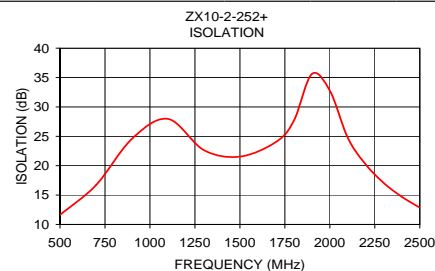
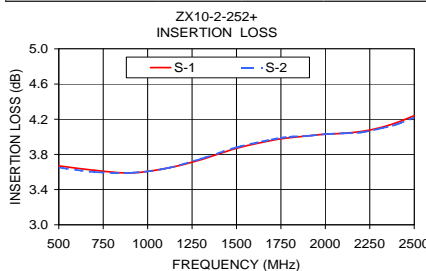
A	B	C	D	E	F	G
.74	.90	.54	.50	.04	.16	.29
18.80	22.86	13.72	12.70	1.02	4.06	7.37

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

### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
500.0	3.67	3.65	0.01	11.62	0.29	1.57	1.27	1.26
700.0	3.62	3.60	0.02	16.70	0.36	1.35	1.18	1.18
900.0	3.59	3.59	0.01	24.57	0.43	1.16	1.12	1.12
1100.0	3.64	3.64	0.00	27.96	0.53	1.09	1.07	1.07
1300.0	3.74	3.75	0.01	22.65	0.61	1.21	1.04	1.04
1500.0	3.87	3.88	0.01	21.54	0.69	1.32	1.10	1.10
1700.0	3.96	3.97	0.01	24.03	0.77	1.34	1.19	1.19
1800.0	3.99	4.00	0.01	27.66	0.82	1.32	1.23	1.23
1900.0	4.01	4.01	0.00	35.60	0.86	1.28	1.27	1.27
2000.0	4.03	4.03	0.00	32.76	0.91	1.21	1.30	1.29
2100.0	4.04	4.04	0.01	24.72	0.96	1.14	1.32	1.31
2200.0	4.06	4.05	0.01	20.20	1.00	1.06	1.32	1.32
2300.0	4.10	4.09	0.02	17.05	1.05	1.06	1.32	1.31
2400.0	4.16	4.14	0.02	14.71	1.07	1.16	1.30	1.30
2500.0	4.24	4.22	0.02	12.86	1.12	1.28	1.28	1.28



### electrical schematic



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