

Coaxial

Power Splitter/Combiner

ZX10-2-442+

2 Way-0° 50Ω 1550 to 4400 MHz

Maximum Ratings

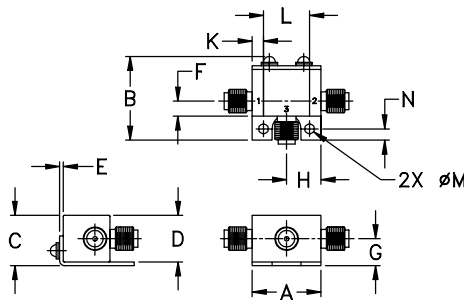
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1.5W max.
Internal Dissipation (as a combiner)	0.75W max.

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	Price	Qty.
SMA	ZX10-2-442-S+	\$31.95	(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.

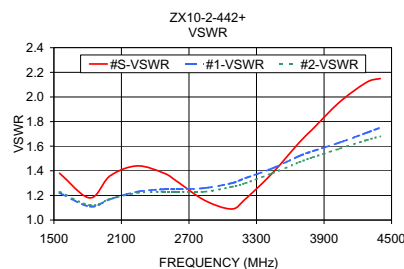
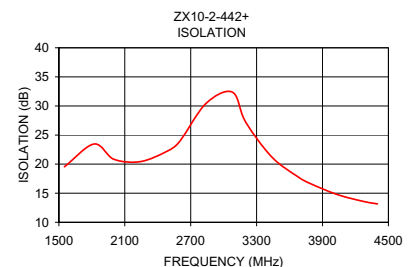
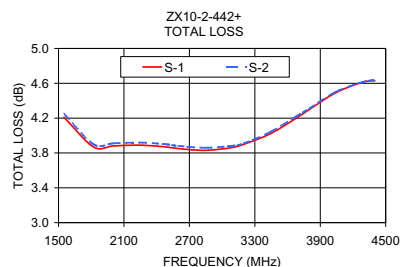
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
$f_L - f_U$	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



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For detailed performance specs & shopping online see web site

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