Coaxial

Power Splitter/Combiner

ZX10-2-20+

2 Way-0° 50Ω 200 to 2000 MHz

CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX10-2-20-S+	$24.95	(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.

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation (as a combiner)	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2

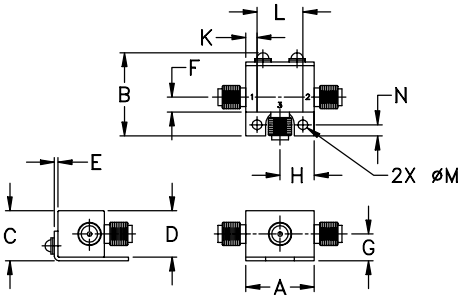
Features

- low insertion loss, 0.8 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

- PCN/PCS
- cellular/GSM
- VHF/UHF receivers/transmitters

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

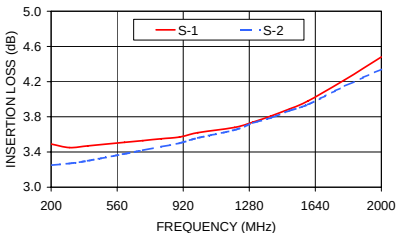
Electrical Specifications (T_{AMB}=25°C)

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
200-2000	**20**	**16**	**0.8**	**2.2**	**6.0**	**0.4**
800-1000	22	17	0.5	0.9	2.0	0.3
500-1500	22	17	0.5	1.3	3.0	0.4
1800-2000	20	17	1.6	2.2	6.0	0.4

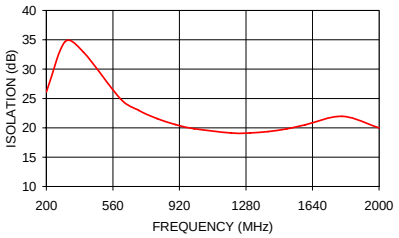
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
200.00	3.49	3.25	0.25	26.07	1.50	1.40	1.51	1.47
300.00	3.45	3.27	0.19	34.65	0.82	1.40	1.37	1.37
400.00	3.47	3.30	0.17	32.93	0.41	1.40	1.28	1.31
600.00	3.51	3.38	0.14	24.97	0.06	1.40	1.18	1.23
700.00	3.53	3.42	0.11	22.98	0.20	1.40	1.14	1.19
800.00	3.55	3.46	0.10	21.58	0.31	1.40	1.10	1.16
900.00	3.57	3.50	0.07	20.55	0.37	1.39	1.07	1.13
1000.00	3.62	3.56	0.06	19.84	0.41	1.38	1.05	1.10
1200.00	3.68	3.65	0.03	19.12	0.51	1.34	1.08	1.04
1300.00	3.74	3.73	0.01	19.12	0.56	1.31	1.11	1.01
1400.00	3.81	3.79	0.01	19.35	0.38	1.27	1.15	1.02
1500.00	3.89	3.87	0.02	19.82	0.11	1.23	1.20	1.05
1600.00	3.98	3.94	0.02	20.51	0.14	1.18	1.25	1.09
1800.00	4.22	4.15	0.07	21.96	0.89	1.05	1.34	1.19
2000.00	4.48	4.34	0.14	20.00	2.24	1.12	1.41	1.28

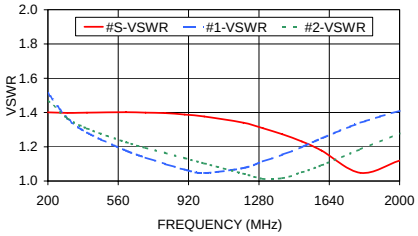
ZX10-2-20+
INSERTION LOSS



ZX10-2-20+
ISOLATION



ZX10-2-20+
VSWR



electrical schematic

REV. F
M108294
ZX10-2-20+
ED-10145/2
HY/RS/CP/AM
090824