

WA-ZAPD1

Passive 2-way Combiner BNC

Order # 711.217



FEATURES

- Wideband, 470 to 1,000 MHz
- Low insertion loss, 0.25 dB typ.
- Good isolation, 25 dB typ.
- Up to 10 W power input as splitter
- Excellent amplitude unbalance, 0.1 dB typ.
- Excellent phase unbalance, 0.2 deg. typ.
- Excellent VSWR, 1.1:1 typ.
- Rugged, shielded case

OPTIONAL ACCESSORIES

MS-50	Wall-mount set of antennas.	Order # 707.732
WA-ATDA	Passive/active UHF directional antenna 470 - 790 MHz	Order # 711.004
WA-ATO	Omnidirectional antenna passive, 470 - 790 MHz	Order # 711.586
WA-AMP	Antenna amplifier 470 - 790 MHz	Order # 711.497
WA-AC25	BNC antenna cable, length 25 m, low-attenuation Aircell 7 cable	Order # 711.578
WA-AC10	BNC antenna cable, length 10 m, low-attenuation Aircell 7 cable	Order # 711.551
WA-AC5	BNC antenna cable, length 5 m, low-attenuation Aircell 7 cable	Order # 711.543
WA-CKF	Connecting cable for antenna front mounting, for TG 1000 series	Order # 711.527
WA-CKL	Connecting cable set of one pair to cascade TG 1000 receivers.	Order # 711.535
WA-CGI	Connecting cable for instruments, with 1/4" mono jack plug	Order # 711.608

APPLICATIONS

The passive WA-ZAPD1 two-way combiner is used for multi-antenna systems in conjunction with wireless systems such as the beyerdynamic TG 1000. It can directly be connected to the TG 1000 receiver.

In order to avoid unwanted dropouts inside the combiner, it is necessary to make sure that both antenna signals have the same field strength.

As the antenna phantom powering of 8-9 V is routed from the TG 1000 receiver through the WA-ZAPD1 combiner, the WA-ATDA antenna or the WA-AMP antenna amplifier can be operated with the combiner. The antenna or antenna amplifier is connected via BNC sockets.

TECHNICAL SPECIFICATIONS

Operating temperature.	-55 °C to +100 °C
Storage temperature.	-55 °C to +100 °C
Power input (as splitter)	10 W max.
Internal dissipation	0.125 W max.

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

Coaxial connections

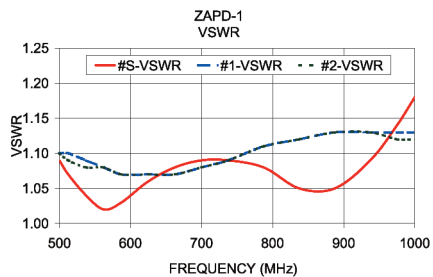
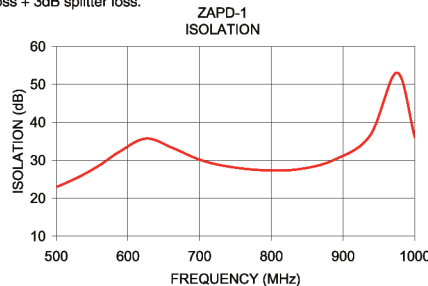
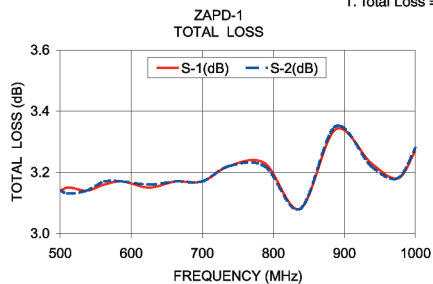
SUM Port	S
Port 1	1
Port 2	2
Weight	120 g

WA-ZAPD1

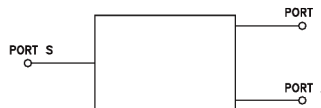
TYPICAL PERFORMANCE DATA

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
500.00	3.14	3.14	0.00	22.98	0.10	1.09	1.10	1.10
512.50	3.15	3.13	0.02	23.95	0.07	1.07	1.10	1.09
537.50	3.14	3.14	0.00	26.20	0.02	1.04	1.09	1.08
562.50	3.16	3.17	0.01	28.96	0.07	1.02	1.08	1.08
587.50	3.17	3.17	0.00	32.19	0.13	1.03	1.07	1.07
625.00	3.15	3.16	0.00	35.73	0.08	1.06	1.07	1.07
662.50	3.17	3.17	0.00	33.23	0.13	1.08	1.07	1.07
700.00	3.17	3.17	0.00	30.16	0.09	1.09	1.08	1.08
737.50	3.22	3.22	0.00	28.42	0.10	1.09	1.09	1.09
787.50	3.23	3.22	0.01	27.39	0.13	1.08	1.11	1.11
837.50	3.08	3.08	0.00	27.65	0.10	1.05	1.12	1.12
887.50	3.34	3.35	0.01	30.13	0.11	1.05	1.13	1.13
937.50	3.23	3.22	0.01	36.50	0.24	1.09	1.13	1.13
975.00	3.18	3.18	0.00	53.09	0.19	1.14	1.13	1.12
1000.00	3.27	3.28	0.01	36.11	0.19	1.18	1.13	1.12

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



WIRING DIAGRAM



DIMENSIONS

(inch mm)						
A	B	C	D	E	F	G
2.00	2.00	0.75	1.00	0.25	1.500	0.125
50.80	50.80	19.05	25.40	6.35	38.10	3.18
H	J	K	L			
0.39	1.00	0.50	1.00			
9.91	25.40	12.70	25.40			

