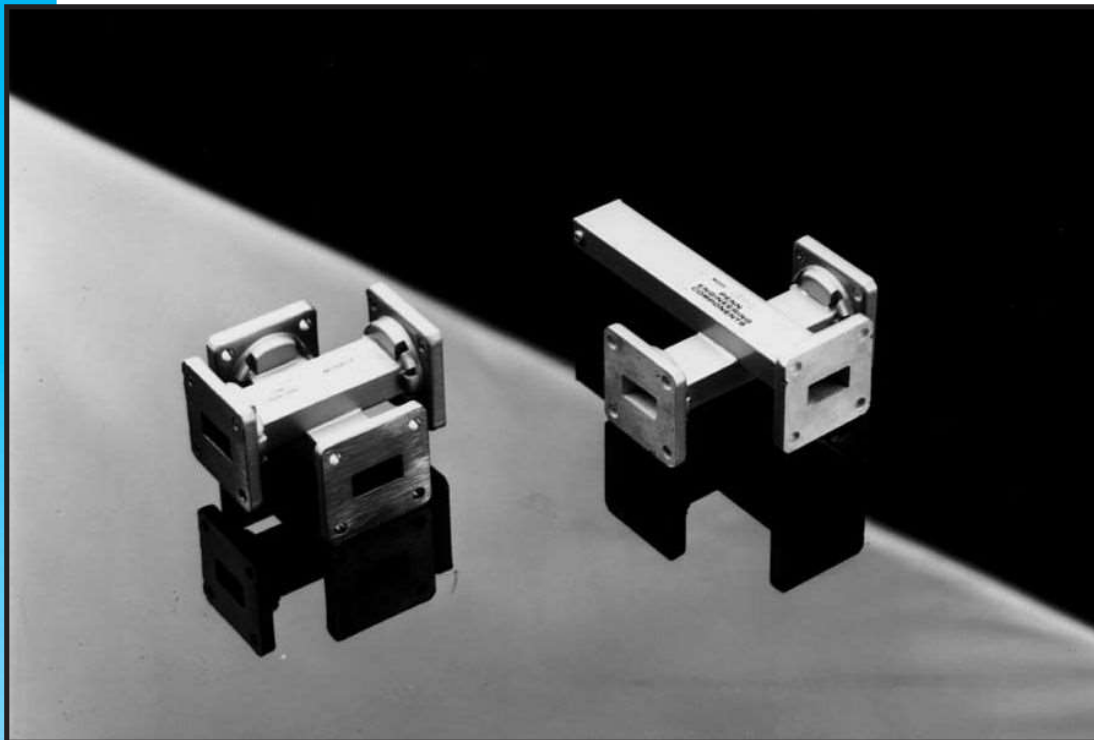


CROSS GUIDE DIRECTIONAL COUPLERS



PENN ENGINEERING'S Cross guide Directional Couplers are a cost effective method of sampling the power traveling through a waveguide system. Terminated models sample power in one direction while 4 port models sample power in both directions. Our Couplers are CNC machined for high precision and individually tuned. Fullband directivity is 15 dB min.

Mid-band nominal coupling values of 20, 30, 40, & 50 dB are standard. Other values are available upon request.

Brass/Bronze Couplers are Silver plated per QQ-S-365D Class A, Aluminum Couplers are Chem-filmed per MIL-C-5541E, and both are finished with PENN ENGINEERING'S Polyurethane Blue Paint.

PENN ENGINEERING COMPONENTS

12750 RAYMER ST.
N. HOLLYWOOD
CALIFORNIA 91605

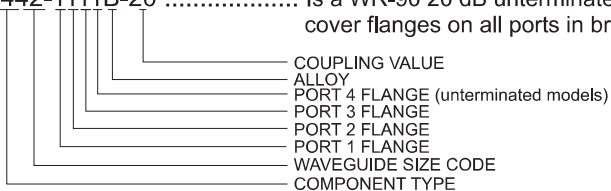
(818) 503-1511

FAX (818) 764-0195

www.pennengineering.com

ORDERING INFORMATION - TO ORDER, USE THE FOLLOWING EXAMPLE:

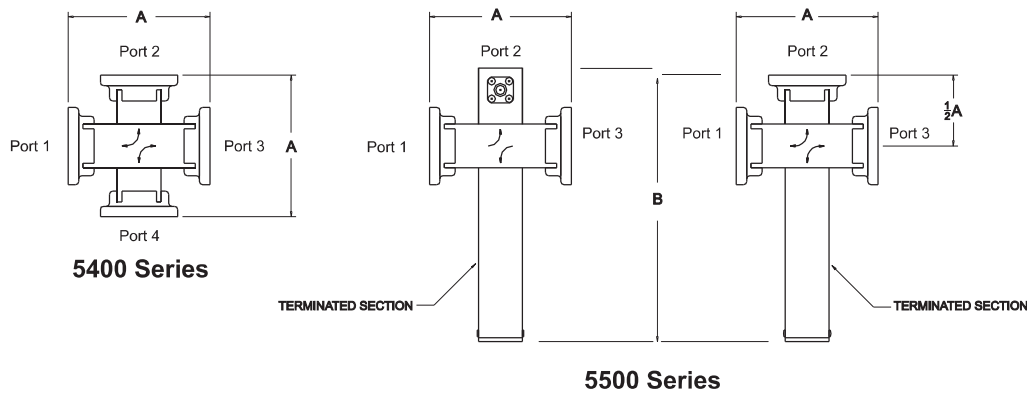
MODEL 5442-1111B-20 Is a WR-90 20 dB unterminated model with cover flanges on all ports in brass



ALLOY: A=ALUMINUM B=BRASS C=COPPER S=SILVER SS=STAINLESS STEEL
FLANGE: 1=COVER 2=CHOKE 3=CMR 4=CPRG 5=CPRF 6=SMA (Female) 7="N" (Female)

(See last page for complete list of flanges and materials)

CROSS GUIDE DIRECTIONAL COUPLERS



Unterminated Model No.	Terminated Model No.	Waveguide Size EIA	Frequency Range GHz	Dimension "A"	Dimension "B" *
5464	5564	WR-650	1.12-1.70	10.75	size on request
5460	5560	WR-430	1.70-2.60	9	size on request
5456	5556	WR-284	2.60-3.95	7.5	15.50
5454	5554	WR-229	3.30-4.90	6.5	14.12
5452	5552	WR-187	3.95-5.85	5.75	12.50
5450	5550	WR-159	5.90-6.50	5.25	10.56
5448	5548	WR-137	5.85-8.20	5	8.87
5446	5546	WR-112	7.05-10.0	4	8.68
5444	5544	WR-102	7.00-11.0	3.5	8.50
5442	5542	WR-90	8.20-12.4	3	6.50
5440	5540	WR-75	10.0-15.0	2.75	6.00
5438	5538	WR-62	12.4-18.0	2.5	4.87
5436	5536	WR-51	15.0-22.0	2.5	4.31
5434	5534	WR-42	18.0-26.5	2.5	4.25
5432	5532	WR-34	22.0-33.0	2.5	4.25
5430	5530	WR-28	28.5-40.0	1.5	4.25

* Terminated models only