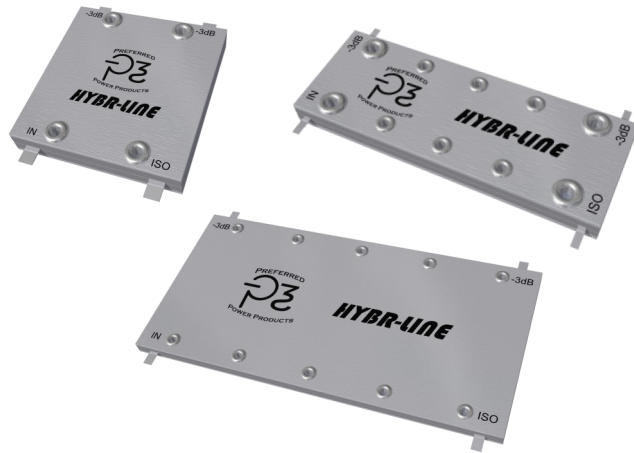


# 800 Watt 90° *HYBR-LINE* Coupler



120-230 MHz

Model: HBL-120-230-R8F1



<b>Frequency:</b>	<b>120 - 230 MHz</b>
<b>Amplitude Balance:</b>	<b>±0.50 dB Max.</b>
<b>Power:</b>	<b>800 Watts CW</b>
<b>Phase Balance:</b>	<b>± 2° Typical</b>
<b>Insertion Loss:</b>	<b>0.25 dB Max.</b>
<b>Isolation:</b>	<b>20 dB Min.</b>
<b>VSWR:</b>	<b>1.20:1 Max. All Ports</b>

**HBL Series** Drop-In Hybrid couplers provide High Power dividing or combining while exhibiting excellent phase and amplitude balance over continuous broadband operation. Solid compact designs are able to operate in a wide variety of environments, which include Medical, Industrial, Commercial wireless, Military, and Space. The **P3** library of designs allows for modifications of standard designs to be made quickly and inexpensively to meet specific requirements with short delivery times. Consult factory for special requirements or frequency ranges.

**NOTES:**

Material: Aluminum Alloy. 6061-T651  
 Finish: Chem-Film, Clear Iridite MIL-DTL-5541F  
 Operating Temperature: -55°C to +85°C

Specifications subject to change without notice

Technical drawing showing dimensions: 4.50, 3.85, 0.325, 0.800, 0.670, 0.383, 0.608, 0.120, 0.340 MAX., 0.03 EYELET PROJECTION (4 PLACES) TYP. EACH SIDE MAX. EYELET DIA. .220, 0.160 TYP.

Diagram showing port locations: IN, ISO, -3db, -3db.

Diagram showing eyelet projection details.

Diagram showing port labels: A, B, C, D.

EXAMPLE: HBL-XXX-XXX-XX

INPUT	OUTPUT			
	A	B	C	D
A	Termination	Termination	0°	-90°
B	Termination	Termination	-90°	0°
C	0°	-90°	Termination	Termination
D	-90°	0°	Termination	Termination

**NOTES:**

1. TOLERANCE IS ±.020, (UNLESS OTHERWISE SPECIFIED)
2. LEAD WIDTH: .250" TYP.
3. LEAD LENGTH: .150" TYP.
4. LEAD MATERIAL: 99.99% PURE SILVER (.005" THK.)

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