

# 400 Watt 90° *HYBR-LINE* Coupler



200-400 MHz

Model: HBL-200-400-R4D1



<b>Frequency:</b>	<b>200 - 400 MHz</b>
<b>Amplitude Balance:</b>	<b>±0.50 dB Max.</b>
<b>Power:</b>	<b>400 Watts CW</b>
<b>Phase Balance:</b>	<b>± 2° Typical</b>
<b>Insertion Loss:</b>	<b>0.20 dB Max.</b>
<b>Isolation:</b>	<b>18 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 and features of the HBL-XXX-XXX-XXX coupler. Dimensions include: overall length 2.000, distance from left edge to center of IN port 1.800, distance from left edge to center of ISO port 1.500, total height .500, IN port diameter .120 TYP., ISO port diameter .120 TYP., .100 DIA. THRU. (2 PLACES), .100, .250, .120, .250, .15 TYP. (4 PLACES), .210 MAX., .03 MAX. EYELET PROJECTION TYP. EACH SIDE, MAX. EYELET DIA. .220, .100 TYP.

**NOTES:**

1. TOLERANCE IS ± .020, (UNLESS OTHERWISE SPECIFIED)
2. LEAD WIDTH: .120" TYP.
3. LEAD LENGTH: .150" TYP.
4. LEAD MATERIAL: 99.99% PURE SILVER (.005" THK.)

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

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