

400 Watt 90° *HYBR-LINE* Coupler



1000-2000 MHz



Model: HBL-1K-2K-R4



Frequency:	1000-4000 MHz.
Amplitude Balance:	±0.40dB Max.
Power:	400 Watts CW
Phase Balance:	± 5.0° Typical
Insertion Loss:	0.20 dB Max.
Isolation:	20 dB Min.
VSWR:	1.25:1 Max. All Ports

HBL *HYBR-LINE* 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

Top View Dimensions:
 - Total width: 1.350
 - Distance between IN and ISO: 1.050
 - Distance between -3dB ports: 0.550
 - IN port offset: 0.150
 - ISO port offset: 0.400
 - Mounting holes: .100 DIA. 2 PLCS.
 - Grounding eyelets: 2 PLCS.
 - Part number: HBL-1K-2K-400
 - Labels: S/N: XXXX, LOT: XXXX

Side View Dimensions:
 - Total height: .200
 - Eyelet height: .107
 - Eyelet projection: .03 MAX. EYELET PROJECTION TYP. EACH SIDE MAX. DIA. .130
 - Bottom eyelet projection: .035 MAX. EYELET PROJECTION TYP. EACH SIDE MAX. EYELET DIA. .200
 - Bottom offset: .150

NOTES:
 1. TOLERANCE IS +/- .020" (UNLESS OTHERWISE SPECIFIED)
 2. LEAD WIDTH: .060" TYP.
 3. LEAD LENGTH: .150" TYP.
 4. LEAD MATERIAL: 99.99% PURE SILVER (.005" THK.)

EXAMPLE: HBL-XXX-XXX-XX

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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