

MH-39

3 dB, 180°

Hybrid Couplers



Specifications:

Parameter	Specification	Units
Frequency Range (Min)	2.0 – 4.0	GHz
Nominal Coupling	3.0 +.30/-0	dB
Deviation from Nominal Coupling (Max)	±.55	dB
Insertion Loss (Max)	0.30	dB
Isolation (Min)	18	dB
VSWR (Max)	1.35:1	Ratio
Phase Balance	±4.0	Degrees

"A" in.	"B" in.	"C" in.	"D" in.	"E" in.	"F" in.	"G" in.
1.55	1.70	0.20	1.30	1.35	0.25	0.38

Screening:

Internal Visual per MIL-STD-883, Method 2017
 Temperature Cycle: -65 °C to +100 °C, 10 cycles

Hermetically-sealed switches are fine and gross leak checked per MIL-STD-883, Method 1014.

Optional High-Rel screening available upon request. Contact the factory to discuss your screening requirements.

Mechanical Specifications:

Case Style: MH Outline
 Connectors: SMA Female per MIL-C-39012
 Connector Control: Micro-D 21 Pin
 Bias & Control Pins: ø0.02" x 0.15" long
 Mounting: ø0.10" through holes (4) places

Environmental Specifications:

Designed to meet:
 MIL-E-5400, MIL-STD-202, MIL-E-16400
 Operating Temp: -55°C to +125°C
 Storage Temp: -65°C to +150°C
 Humidity: MIL-STD-202F, M103, Cond B
 Shock: MIL-STD-202F, M213, Cond B
 Altitude: MIL-STD-202F, M105, Cond B
 Vibration: MIL-STD-202F, M204, Cond B
 Thermal Shock: MIL-STD-202F, M107, Cond A
 Temperature Cycle: MIL-STD-202F, M105C, Cond D

Custom Options – Contact the Factory

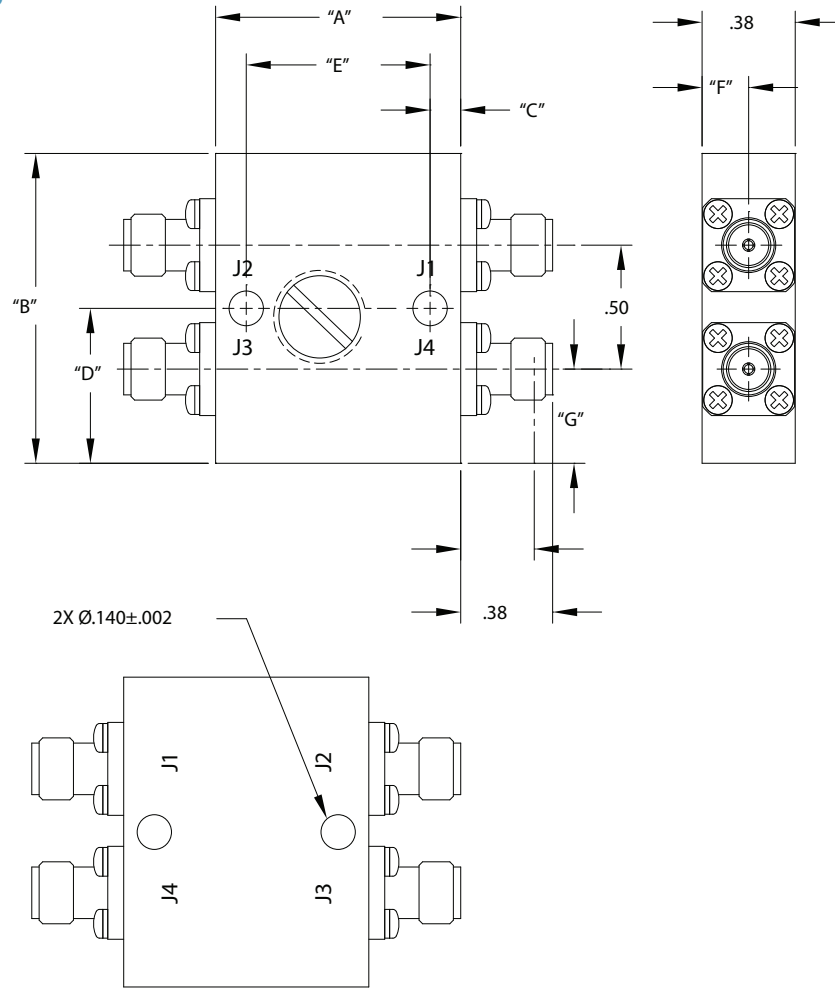
- Gray epoxy paint per MIL-C-22750
- Video transient suppression
- GPO connectors
- ECL logic input
- Phase and amplitude tracking
- Other frequency ranges available from 1 MHz to 26 GHz
- Reversed logic
- Available without SMA connectors for drop-in applications
- High rel screening



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Outline Drawing:



OUTLINE CASE STYLE MH

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