## MH-52 3dB 180 Degree Hybrid Couplers



# A passion for performance.

### **Specifications:**

Parameter	Specification	Units
Frequency Range (Min)	7.0 - 11.0	GHz
Nominal Coupling	3.0 +.45/-0	dB
Deviation from Nominal Coupling (Max)	±.60	dB
Insertion Loss (Max)	0.45	dB
Isolation (Min)	17	dB
VSWR (Max)	1.50:1	Ratio
Phase Balence	±5.0	Degrees

"A"	"B"	"C"	"D"	"E"	"F"	"G"
in.	in.	in.	in.	in.	in.	in.
1.00	1.10	0.55	-	0.80	0.25	0.25

### 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.

#### **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



### **Mechanical Specifications:**

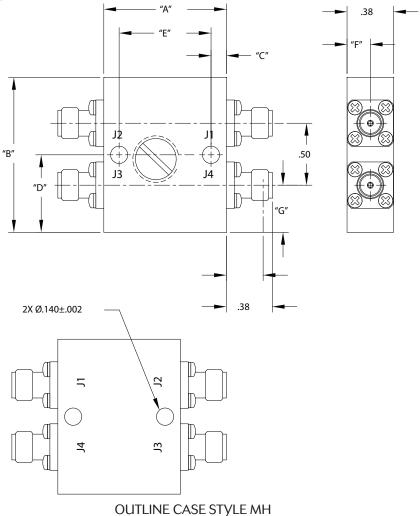
Case Style:	MH Outline
Connectors:	SMA Female per MIL-C-39012
Connector Control:	Micro-D 21 Pin
Bias & Control Pins:	ø0.02" x 0.15" long
Mounting:	ø0.10" through holes (4) places

### **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 1MHz to 26GHz
- Reversed logic
- Available without SMA connectors for drop-in applications
- High rel screening

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