*Universal Microwave Components Corp.*
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**E-mail: sales@umcc111.com <> Tel: (703) 642-6332 <> Fax: (703) 642-2568**

## Model: HC-BC00-MS

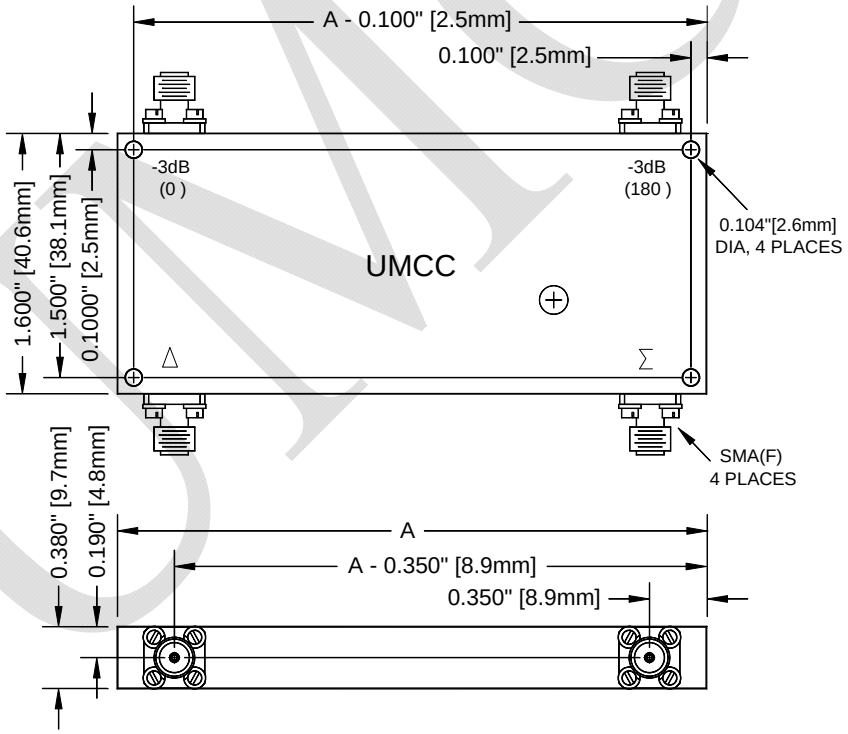
| | | |
|---|---|---|
| Description: | | 180° / 3dB Hybrid Coupler |
| Operating Frequency: | | 0.8 – 1.6 GHz |
| Coupling (Includes Loss & flatness): | | 3.3 ± 0.5 dB Max |
| Frequency Flatness: | | ± 0.5 dB Max |
| Isolation | | 22 dB Min |
| VSWR: | | 1.30:1 Max |
| Phase Error: | | ±9° Max |
| Power Handling: | CW/AVG: | 50W Max |
| | Peak: | 3KW Max |
| Connectors: | | SMA (f) |
| Impedance: | | 50 Ohms Nominal |
| Weight: | | 4.2 oz [119g] |
| Quality: | | Best-Commercial-Grade |

**Environmental Ratings:**

| | |
|---|---|
| Temperature: | {Operating: -55°C to +95°C} & {Storage: -60°C to +110°C} |
| Humidity: | MIL-STD-202F, Method 103B Cond. B (96 hours at 95% R.H.) |
| Shock: | MIL-STD-202F, Method 213B, Cond. B (75G, 6mSec) |
| Vibration: | MIL-STD-202F, Method 204D, Cond. B (.06" double amplitude, or 15G) |
| Altitude: | MIL-STD-202F, Method 105C, Cond. B (50,000 Feet) |
| Temp. Shock: | MIL-STD-202F, Method 107D, Cond. A (5 cycles) |

## Outline

**("A"= 4.260" [108.2mm])**




| Phase / Ampl. Function Table | | Signal Output | | | |
|---|---|---|---|---|---|
| | | Δ | Σ | 0° | 180° |
| Signal Input | Δ | X | Iso. | -3dB∠0° | -3dB ∠180° |
| | Σ | Iso. | X | -3dB∠0° | -3dB∠0° |
| | 0° | -3dB∠0° | -3dB∠0° | X | Iso. |
| | 180° | -3dB ∠180° | -3dB∠0° | Iso. | X |

**- Specifications are subject to change without notice**