



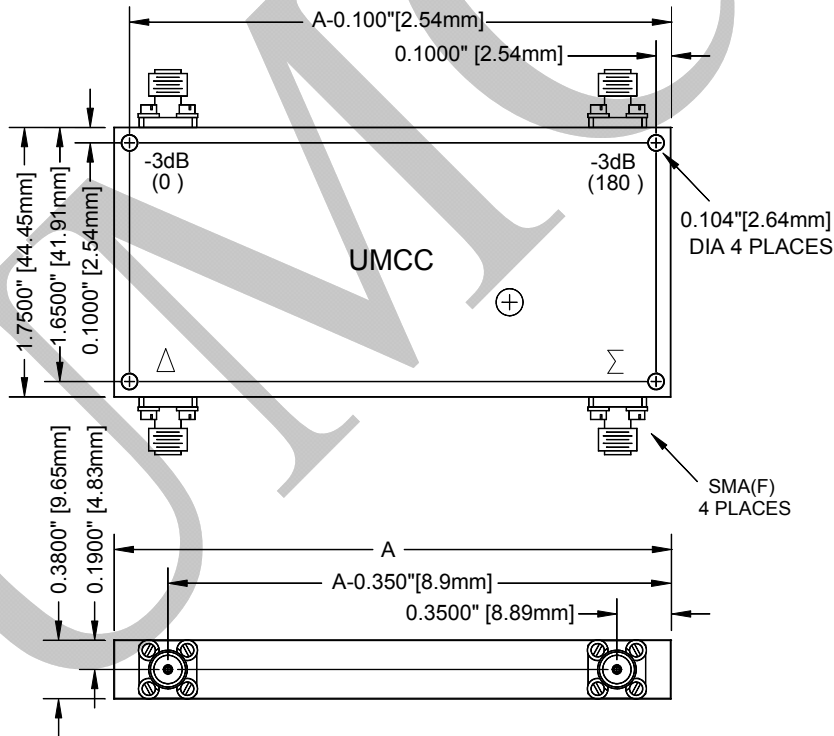
**Model: HC-D000-MS**

Description:..... 180° / 3dB Hybrid Coupler  
 Operating Frequency:..... 2 – 4 GHz  
 Coupling (Includes Loss & flatness):..... 3.5 ± 0.7 dB Max  
 Frequency Flatness:..... ± 0.6 dB Max  
 Isolation ..... 22 dB Min  
 VSWR:..... 1.35:1 Max  
 Phase Error (Reference to Median Line):..... ±6° Max  
 Power Handling: ..... CW/AVG:..... 50W Max  
 ..... Peak:..... 3KW Max  
 Connectors: ..... SMA (f)  
 Impedance:..... 50 Ohms Nominal  
 Weight:..... 2.6 oz [73.7g]  
 Quality:..... Best-Commercial-Grade

**Environmental Ratings:**

Temperature:..... {Operating: -40°C to +85°C} & {Storage: -50°C to +100°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" = 2.300" [58.4mm])



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