



Universal Microwave Components Corp.

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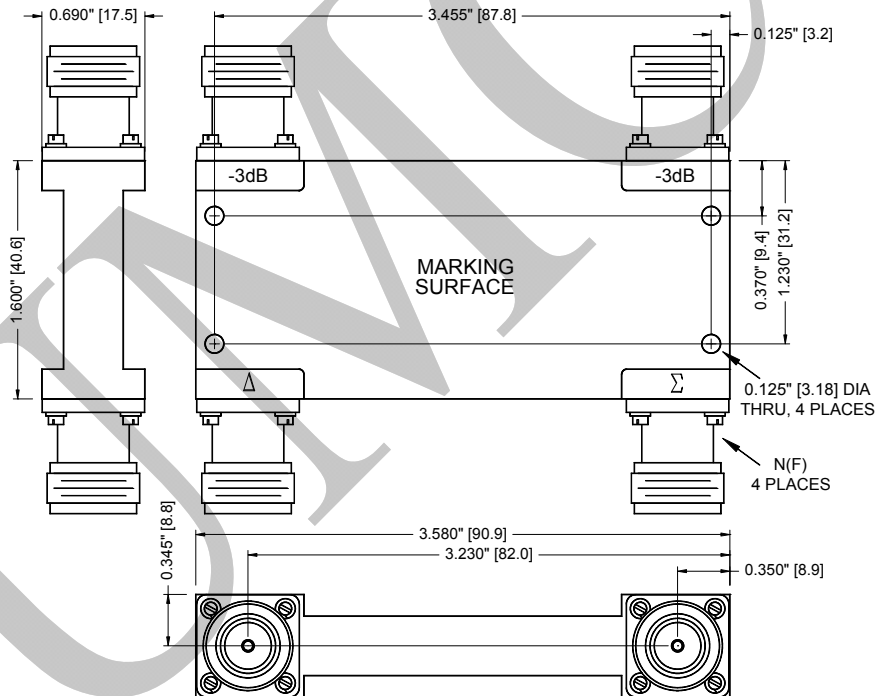
Model: HC-C000-MN

Description: 180° / 3dB Hybrid Coupler
Operating Frequency: 1 – 2 GHz
Coupling (Includes Loss & flatness): 3.4 ± 0.6 dB Max
Frequency Flatness: ± 0.5 dB Max
Isolation 22 dB Min
VSWR: 1.30:1 Max
Phase Error (Reference to Median Line): $\pm 7^\circ$ Max
Power Handling: CW/AVG: 50W Max
..... Peak: 3KW Max
Connectors: N (f)
Impedance: 50 Ohms Nominal
Weight: 6.5oz [184g]
Quality: Best-Commercial-Grade

Environmental Ratings:

Temperature: {Operating: -40°C to $+85^\circ\text{C}$ } & {Storage: -50°C to $+100^\circ\text{C}$ }
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



Phase / Ampl. Function Table		Signal Output			
		Δ	Σ	0°	180°
Signal Input	Δ	X	Iso.	$-3\text{dB} \angle 0^\circ$	$-3\text{dB} \angle 180^\circ$
	Σ	Iso.	X	$-3\text{dB} \angle 0^\circ$	$-3\text{dB} \angle 0^\circ$
	0°	$-3\text{dB} \angle 0^\circ$	$-3\text{dB} \angle 0^\circ$	X	Iso.
	180°	$-3\text{dB} \angle 180^\circ$	$-3\text{dB} \angle 0^\circ$	Iso.	X