



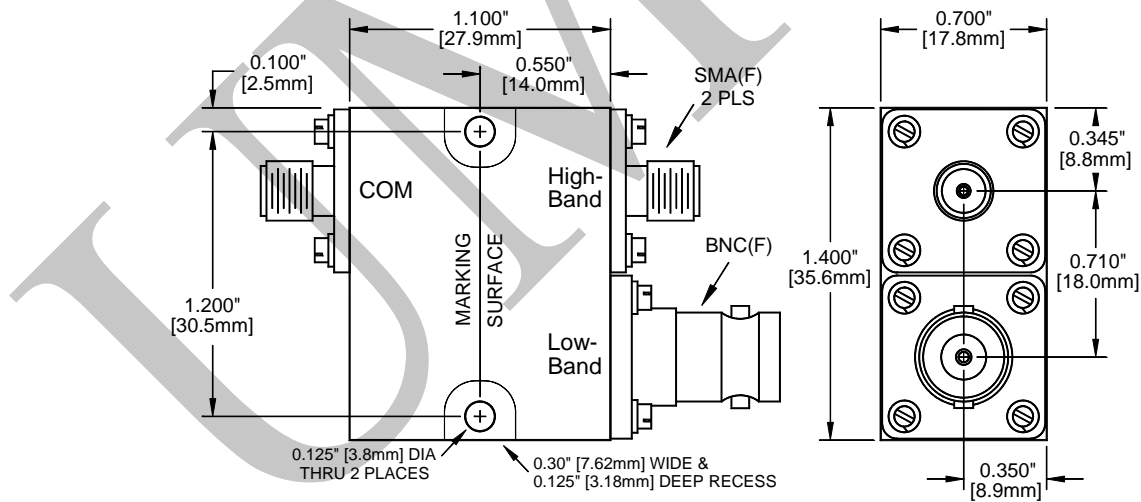
**Model: M2-B7C-860-SB**

Description:..... Contiguous Diplexer  
 Ultimate Frequency Band: ..... DC - 5000 MHz  
 Crossover Frequency: ..... 860 MHz, ±5% Max  
 Insertion Loss @ Crossover Frequency: ..... 4.5dB Max  
 Low-Band Frequency Range:..... @ 1dB Bandwidth..... DC – 800 MHz  
 High-Band Frequency Range:..... @ 1dB Bandwidth..... 900 – 5000 MHz  
 VSWR: ..... 1.45:1 Max  
 Rejection (COM to Low-Band): ..... 1050-5000 MHz..... > 30 dB  
 ..... 1300-5000 MHz..... > 50 dB  
 Rejection (COM to High-Band):..... DC-690 MHz..... > 30 dB  
 ..... DC-540 MHz..... > 50 dB  
 Power Handling: ..... 40W CW/AVG  
 RF Connector: ..... SMA (female)  
 RF+DC Connector: ..... SMA (female)  
 Bias Connector: ..... BNC (female)  
 Impedance: ..... 50 Ohms Nominal  
 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**

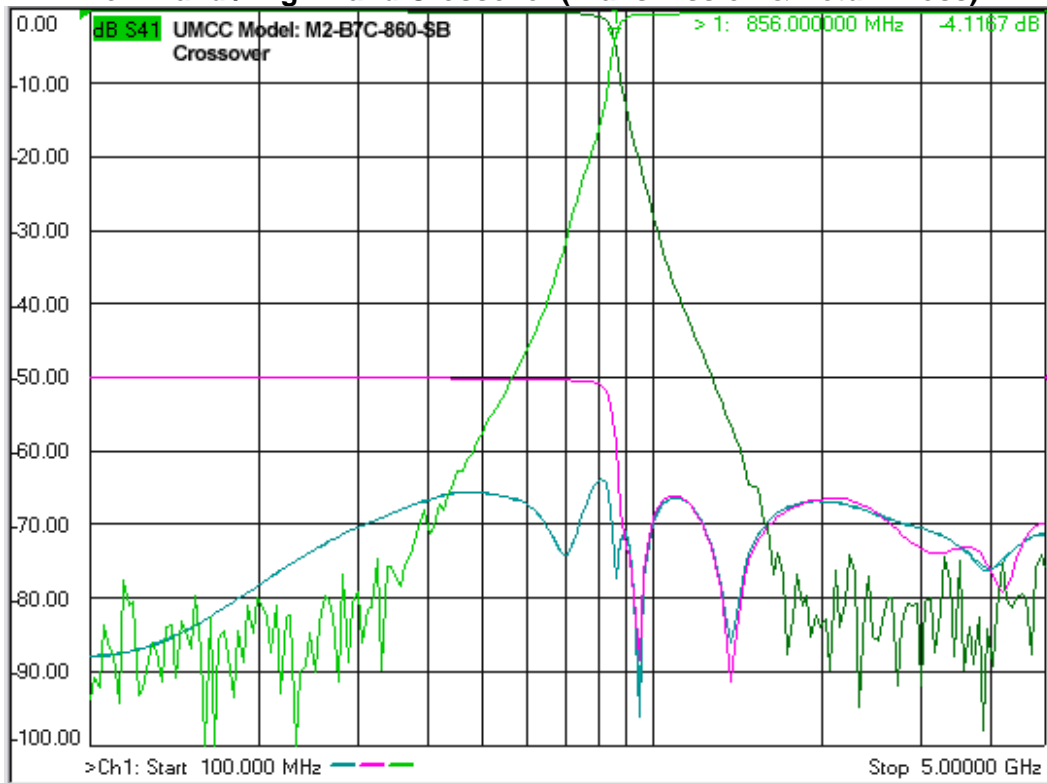


Weight	Tolerances
2.4 oz [68.0g]	±0.015" [±0.38mm]



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### Low-Band / High-Band Crossover (Transmission & Return Loss)



### Low-Band / High-Band Cross Isolation

