



Specification for a Ku-Band 50W Diplexer MtronPTI P/N: UFDX9999-001

MtronPTI has introduced another Ku Band high power diplexer targeted towards Unmanned Aircraft Systems (UAS), Satcom and Electronic Warfare datalink applications. The diplexers incorporate highly selective high power handling bandpass filters for simultaneous transmit and receive operation with outstanding isolation of better than -110dB between uplink and downlink for datalink feeds.

Features: Low TX and RX signal loss, > 110dB Isolation, Small Size, Low weight

Applications: UAS, Satcom, Electronic Warfare Datalinks

Representative Performance Characteristics:

Passband1 Frequency Range: 14.4GHz to 14.83GHz

Passband2 Frequency Range: 15.15GHz to 15.35GHz

Insertion Loss (IL): ≤ 1.3 dB

Return Loss all ports : >15dB

Group Delay Variation: 1.5nS p-p max over any 49MHz within Passband

Isolation: ≥ 110 dB

RF Impedance All ports: 50 ohms

Maximum Power Handling: 50W CW

General Specifications:

Operating Temperature: -55°C to +85°C

Storage Temperature: -55°C to +105°C

Altitude: 42,000 Feet

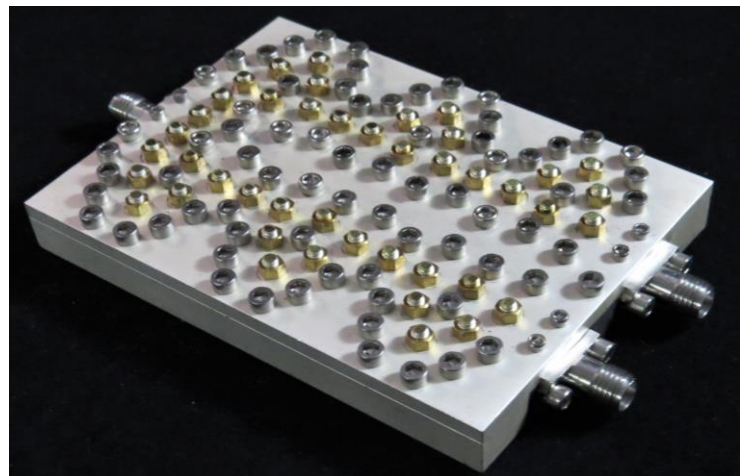
Weight: < 130 grams

Size: 3.07"x2.24"x 0.6" max height, does not include the SMA connectors

Tolerance on length and width: .XX+/- .01



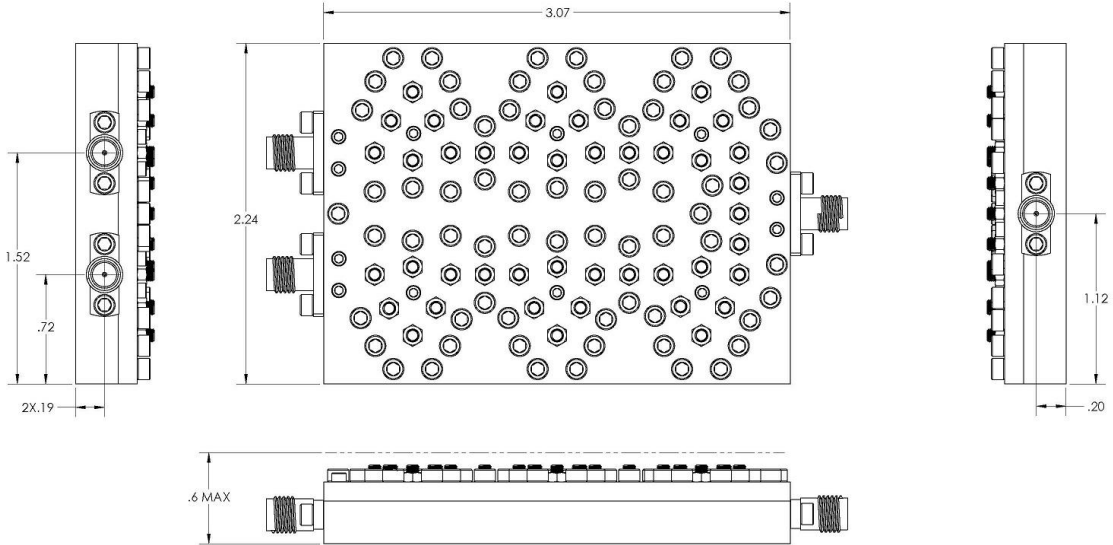
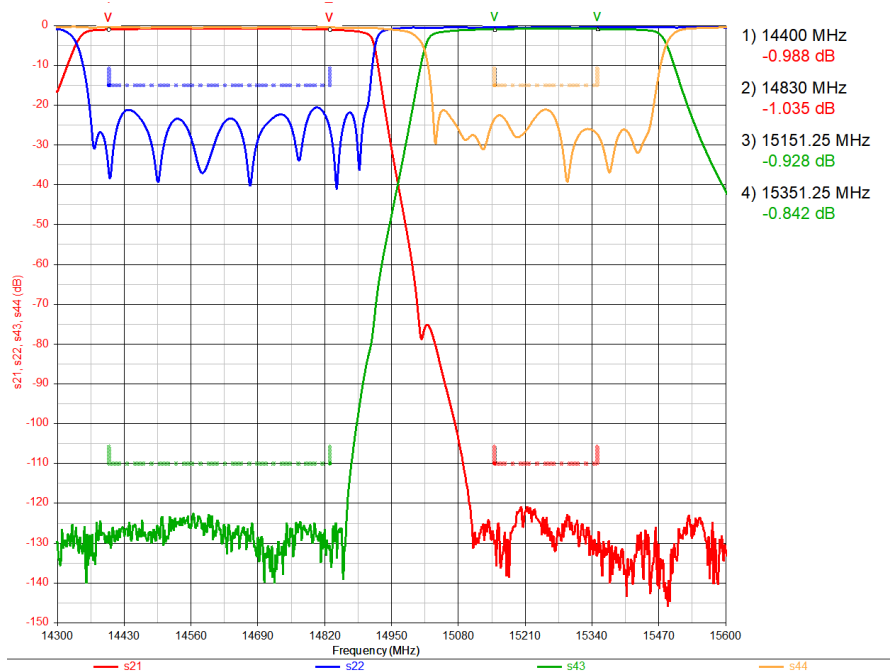
**General Atomics- MQ-9 Reaper with Electronic Warfare payload*





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Date	Rev.	Author	Details of Revision
01-20-20	A	DPD	Original Release