

Building on the success of our high power Ku-band diplexers launched in the last three years, MtronPTI is now introducing a high power multiplexer in L, S and C bands for broadband communication datalinks used in applications like manned and unmanned aircraft, on the move and fixed ground stations, shipboard, beyond line of site wideband satellite communications and ground unmanned vehicles markets. This multiplexer incorporates highly selective, low loss and high power handling bandpass filters that provide isolation of better than -80dB between the datalink feeds.

Features:

- Low signal loss <1.5dB
- 80dB band to band Isolation
- 80W CW Power Handling

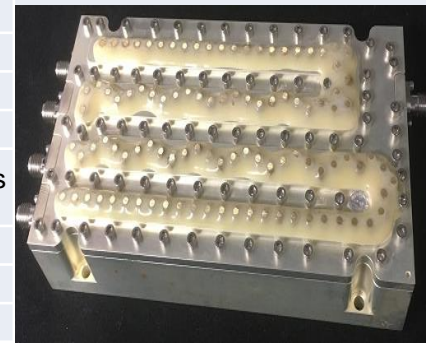
Applications:

- UAS
- Satcom
- Electronic Warfare Datalinks
- Deep Space Satellite Communication Links †

† : MtronPTI has a heritage with space level filter assemblies and supports full space level qualification requirements



| | |
|-------------------------------|--|
| Passband 1 | 2.00 to 2.70GHz |
| Passband 2 | 3.00 to 3.90GHz |
| Passband 3 | 4.20 to 4.95GHz |
| Passband 4 | 5.25 to 6.00GHz |
| Passband Insertion Loss | 1.5dB max. |
| Return Loss@ passband | 12dB min. |
| Band to Band Isolation | 80dB min. |
| Harmonic Rejection | 40dB min. |
| Group Delay Variation | 5.0 nS p-p max over any 135MHz within Passband, 13ns max over any passband |
| Maximum Power Handling | 80W CW |
| RF Impedance All ports | 50 ohms |
| Operating Temperature | -40°C to +70°C |
| Storage Temperature | -55°C to +105°C |
| Altitude | 42,000 Feet |
| Weight | < 600 grams |
| Size | 5.12"x 2.74"x 1.2" max height, does not include the SMA connectors |
| Tolerance on length and width | .XX+/- .01 |



Representative Plots

