

Mtron features a broad portfolio of products that support Common Data Link (CDL) applications. Mtron's oscillators, filters, multiplexers and solutions enable secure, wideband, real-time uplink and downlink transmission of payload control and sensor data via the CDL. Product features include superior channel to channel isolation, low insertion loss, small size and in many cases high power handling. Mtron has successfully designed and delivered microwave filters and integrated microwave assemblies into numerous CDL applications and is advancing the technology daily. These products are qualified on datalinks for space, manned and unmanned aircraft, on the move and fixed ground stations, shipboard, beyond line of site wideband satellite communications and ground unmanned vehicles.

Mtron offers a broad line of precision crystal resonators, oscillators, filters, and Integrated Microwave Assembly Solutions. Mtron is an ISO 9001:2015 and AS9100 Rev. D certified organization.

Features:

- Low Noise Figure
- Highly Selective
- High band to band Isolation
- World class SWaP
- High Power Handling
- Modular Solutions

Applications:

- UAS
- Satcom
- Electronic Warfare



Topology	Part#	Passband(s)	IL (dB, max)	RL (dB, min)	Rejection (dB, min)	Power (W, CW)	Dimensions (inch, max)	Other Specifications
Fitter	LF1122-001	1.35- 2.11 GHz	1	14	@0 to 900MHz: 30 @2700 to 6300MHz: 60 @6333 to 10550MHz: 50	50	1.900" x 0.500" x 0.500"	275W Max. (50% Duty Cycle, 500usec pulse width)
Diplexer	UFDX1144-001	Band 1: 1.7 - 1.8 GHz Band 2: 2.32 - 2.42 GHz	1	15	Band to Band Isolation : 70	30	4.000" x 3.000" x 1.000"	
Triplexer	UFTX1144-002	Band 1: 1.7 - 1.8 GHz Band 2: 1.70 - 1.80 GHz Band 3: 2.20 - 2.30 GHz	0.8	18	Band to Band Isolation : 70	30	6.900" x 5.200" x 1.750"	
Diplexer	LF2244-002	3.975- 4.075 GHz	1.8	14	@500 to 3200MHz: 40 @7900 to 13000MHz: 40	1	1.000" x 0.500" x 0.350"	-
Filter	LF4488-001	5.325 - 5.525 GHz	1.8	14	@500 to 4500MHz: 40 @10700 to 16500MHz: 40	1	1.000" x 0.500" x 0.350"	
Diplexer	UFDX4488-002	Band 1: 4.4 - 4.65 GHz Band 2: 4.75 - 5.0 GHz	1	15	Band 1: 80dB above 4.738 GHz Band 2: 80 dB below 4.662 GHz	50	4.500" x 2.500" x 1.000"	Crossover isolation: >40dB
IMA	UFDX9999-002	Band 1: 6.67 - 7.07 GHz Band 2: 7.32 - 7.92 GHz	4	15	@5000 to 5800MHz: 50 @9000 to 12000MHz: 50	30	3.800" x 2.500" x 1.000"	Diplexer splitter assembly. Isolation between the bands 70dB
Quadruplexer	UFQXLSC12	Band 1: 2.00 - 2.7 GHz Band 2: 3.00 - 3.90 GHz Band 3: 4.20 - 4.95 GHz Band 4: 5.25 - 6.00 GHz	1.5	12	Band to Band Isolation : 80	80	4.000" x 3.000" x 1.000"	
Diplexer	UFDX8012-001	Band 1: 9.71 - 9.99 GHz Band 2: 10.10 - 10.50 GHz	1	15	Band to Band Isolation : 81	50	3.070" x 2.240" x 0.600"	
Filter	UF10081	15.150 - 15.350 GHz	4	15	14400 - 14830MHz: 80	1	2.160" x 1.440" x 0.650"	
Diplexer	UFDX9999	Band 1: 14.4 - 14.83 GHz Band 2: 15.15 - 15.35 GHz	1	15	Band to Band Isolation : 80	50	2.930" x 2.810" x 0.625"	
Diplexer	UFDX9999-001	Band 1: 14.4 - 14.83 GHz Band 2: 15.15 - 15.35 GHz	1.5	15	Band to Band Isolation : 70	10	2.300" x 1.220" x 0.600"	
Diplexer	UFDX9999-005	Band 1: 14.4 - 14.83 GHz Band 2: 15.15 - 15.35 GHz	1	15	Band to Band Isolation : 110	50	3.070" x 2.240" x 0.600"	
IMA	IMA-005	Band 1: 14.4 - 14.83 GHz Band 2: 15.15 - 15.35 GHz	2	15	Band to Band Isolation: 125	100	9.000" x 7.000" x 4.000"	IMA Noise Figure: <3.8dB IMA Harmonic Suppression: 2nd -70dB, 3rd -25dB. Diplexers integrated with switches, LNA and user interface for switching between channels.
Diplexer	UFDX9999-006	Band 1: 15.55 - 16.00 GHz Band 2: 16.45 - 16.90 GHz	1.5	15	Band to Band Isolation: 70	10	3.000" x 2.000" x 0.600"	
Diplexer	UFDX9999-007	Band 1: 21.2 - 21.55 GHz Band 2: 21.75 - 22.10 GHz	2	15	Band to Band Isolation: 70	10	3.000" x 2.000" x 0.600"	
Diplexer	UFDX9999-008	Band 1: 22.55 - 23.00 GHz Band 2: 23.20 - 23.65 GHz	2	15	Band to Band Isolation: 70	10	2.600" x 2.000" x 0.600"	

