

Product Brief

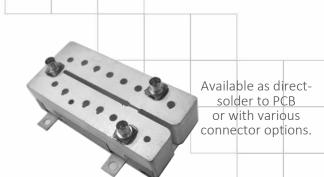




UMD071A Band 71 UMD Series Duplexer

Features

- Low Loss with High Rejection
- Superior power handling and reliability
- Universal footprint across all UMD Series frequency bands
- Available for either PCB mounting or with various connectors including SMA, SMP-Max, and other options.



ESTIMATE Part Dimensions: $64 \times 29 \times 19$ mm • <120 g (excl. connectors) Materials: Ag plated ceramic block with tin plated brass shield

Applications

- Wireless Infrastructure applications
- High-performance carrier-grade active antennas and small-cells for 4-10W at the antenna port.
- Wide-band DAS, Repeaters, or small-cells requiring multi-channel or carrier aggregation

Description

Ceramic duplexer supports a universal footprint across all FDD frequency bands < 1 GHz enabling the use of a common system PCB. Provides superior rejection, insertion loss, reliability, as well as both peak and average power handling compared to other duplexer technologies.

Electrical Specifications

Parameter	Frequency (MHz)	Typical at 25°C	Spec. at 25°C	Spec. over -40°C to +85°C
Nominal Impedance	-	50 ohms	-	-
Average Input Power	-	-	-	20.0 Watt max
Peak Input Power	-	-	-	200 Watt max
Passive Intermodulation (2x 5W)	-	-	-	-106 dBm min TBC
Antenna to UL Response (WARNII	NG HB is UL)			
Passband Insertion Loss (5 MHz avg)	663 - 698			2.6 dB max
Passband Return Loss	663 - 698			14 dB min
Attenuation:	617 - 652			72 dB min
DL to Antenna Response (WARNII	NG LB is DL)			
Passband Insertion Loss (5 MHz avg)	617 - 652			2.6 dB max
Passband Return Loss	617 - 652			14 dB min
Attenuation:	663 - 698			77 dB min
DL to UL Response				
Attenuation for UL band	663 - 698			78 dB min
Attenuation for DL band	617 - 652			73 dB min
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.		Specification All Insertion Loss Return Loss Attenuation	owance 0.1 dB 1.0 dB 1.0 dB	TBC = To be confirmed

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Mechanical Drawing

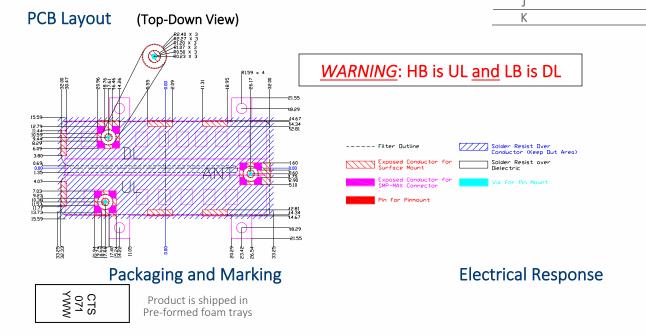
UMD071A

0.13

0.20

Band 71 UMD Series Duplexer

Dim.	Nominal Tolerance
Α	64.00 Max
В	29.00 Max
С	
D	
Е	
F	
G	
Н	
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The trays have xx slots each with one filter per slot. Boxes are packed with 12 Trays per box for a total of xx filters per box.





Band 71 UMD Series Duplexer

Electrical Specifications – Supplemental Spectrum Specifications

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Frequency (MHz)	Typical at 25°C	Spec. at 25°C	Spec. over -40°C to +85°C
1 - 616			>58-60 dB min
729 - 894			>47-50 dB min
1 – 599 flex			>15-18 dB min flex
698 - 849			>58-60 dB min
	1 - 616 729 - 894 1 - 599 flex	(MHz) at 25°C 1 - 616 729 - 894 1 - 599 flex	(MHz) at 25°C at 25°C 1 - 616 729 - 894 1 - 599 flex

Ordering Options

Part Number	Code	Connector Option Description
UMD071A	[blank]	No pins or connectors
	-C3	3 SMP-Com Male with limited detent
	-M3	3 SMP-Max Slide-type Male
	-NS2	N-type antenna port + 2 SMA Male (CMD only)
	-P3	3 thru-hole pins for soldering to PCB (UMD only)
	-S3	3 SMA Female