

UPD025E

Extended Band 25 UPD Series Duplexer

Features

Extension of Band 25 to include Downlink of B70

different test systems which shall not exceed these allowances.

- Low Loss, High Rejection, Superior power handling & reliability
- Universal footprint across all FDD frequency bands

Applications

- High-performance carrier-grades systems using linearized
 PA for 0.25-0.5W and linear PA to 1.0W at the antenna port.
- Wide-band femto-cells or pico-cells requiring multi-channel or carrier aggregation.



Part Dimensions: $44.3 \times 10.1 \times 8.5$ mm • 11.9 g Materials: Ag plated ceramic block with tin plated brass shield

Description

Surface mount ceramic duplexer supports a universal footprint across all FDD frequency bands 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	-	-	-	3.0 Watt max
Peak Input Power	-	-	-	30 Watt max
Antenna to UL Response				
Passband Insertion Loss (5 MHz avg)	1850-1910	2.4 dB	2.9 dB max	3.0 dB max
(5 MHz avg)	1910-1915	3.7 dB	4.0 dB max	4.2 dB max
Passband Ripple	1850-1915	3.2 dB	4.0 dB max	4.0 dB max
Passband Return Loss	1850-1915	11 dB	10 dB min	10 dB min
Attenuation: (5 MHz avg)	1930-2020	54 dB	52 dB min	52 dB min
	2305-2690	>50 dB	24 dB min	24 dB min
DL to Antenna Response				
Passband Insertion Loss (5 MHz avg)	1935-2020	2.5 dB	3.0 dB max	3.2 dB max
(5 MHz avg)	1930-1935	3.6 dB	4.2 dB max	4.4 dB max
Passband Ripple	1930-2020	3.2 dB	4.0 dB max	4.0 dB max
Passband Return Loss	1930-2020	11 dB	10 dB min	10 dB min
Attenuation: (5 MHz avg)	1910-1915	54 dB	52 dB min	52 dB min
(5 MHz avg)	1850-1910	56 dB	55 dB min	55 dB min
	1-1849	>50 dB	27 dB min	27 dB min
DL to UL Response				
Attenuation for UL band (5 MHz avg)	1850-1915	58 dB	55 dB min	55 dB min
Attenuation for DL band (5 MHz avg)	1930-2020	55 dB	52 dB min	52 dB min
Note: CTS tests each unit to the critical s Subsequent audits may deviate due to re		Specification A Insertion Loss	Allowance 0.1 dB	

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Return Loss

Attenuation

1.0 dB

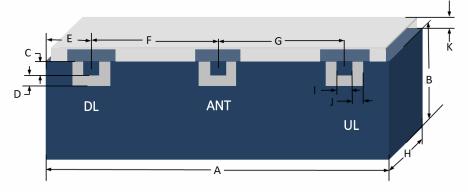
1.0 dB





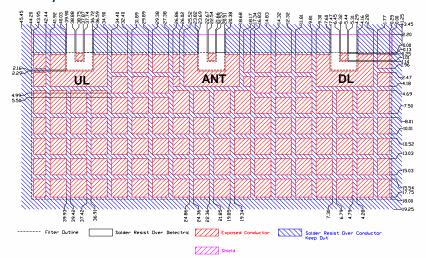


Mechanical Drawing

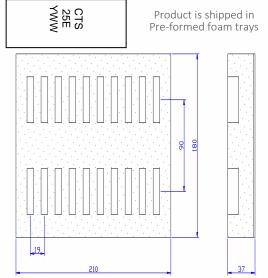


Dim.	Nominal (mm)	Tolerance (±mm or Max)
Α	44.00	0.30
В	8.00	0.30
С	1.10	0.13
D	1.10	0.13
Е	5.78	0.13
F	16.22	0.13
G	16.22	0.13
Н	8.30	0.20
-	1.00	0.13
J	1.00	0.13
K	1.60	0.20

PCB Layout



Packaging and Marking





Electrical Response

