

ADCB-DFDM-DB



Dual Band dc Block, 650–2700 MHz, with interface types DIN Female and DIN Male

Product Classification

Product Type dc Block

General Specifications

Interface 7-16 DIN Female

Interface 2 7-16 DIN Male

Ordering Note CommScope® standard product in Mexico, Central America, and South America | CommScope® standard product in the United States and Canada

Electrical Specifications

Operating Frequency Band 650 – 2700 MHz

3rd Order IMD -116.0 dBm | -159.0 dBc

3rd Order IMD Test Method Two +43 dBm carriers

Average Power at Frequency 250.0 W @ 1,940 MHz | 500.0 W @ 883 MHz

Connector Impedance 50 ohm

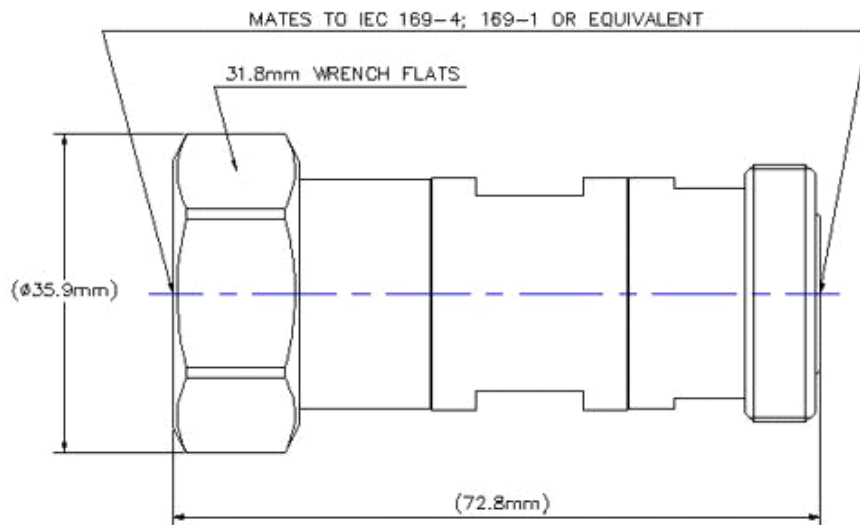
dc Test Voltage 48 V

Injector Port to Antenna Isolation, minimum -70 dB

Peak Power, maximum 13.00 kW

Insertion Loss, typical 0.10 dB

Outline Drawing



Mechanical Specifications

Attachment Durability	25 cycles
Coupling Nut Proof Torque	24.86 N-m 220.00 in lb
Coupling Nut Retention Force	1000.85 N 225.00 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22
Inner Contact Plating	Silver
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	36.07 mm 1.42 in
Length	72.90 mm 2.87 in
Weight	0.21 kg 0.46 lb
Width	36.07 mm 1.42 in

Environmental Specifications

Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A
Immersion Depth	1 m

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Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Mechanical Shock Test Method	MIL-STD-202F, Method 213B, Test Condition C
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
Operating Temperature	-40 °C to +45 °C (-40 °F to +113 °F)
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Thermal Shock Test Method	MIL-STD-202F, Method 107G
Vibration Test Method	MIL-STD-202F, Method 204D, Test Condition B
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66

Standard Conditions

Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
650–2700 MHz	1.13	-24.00

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)



* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	$0.05\sqrt{\text{freq}} \text{ (GHz)}$ (not applicable for elliptical waveguide)