

# ADCB-DFDM-DB

---



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

## Product Classification

<b>Product Type</b>	dc Block
<b>Ordering Note</b>	CommScope® standard product in Mexico, Central America, and South America   CommScope® standard product in the United States and Canada

## General Specifications

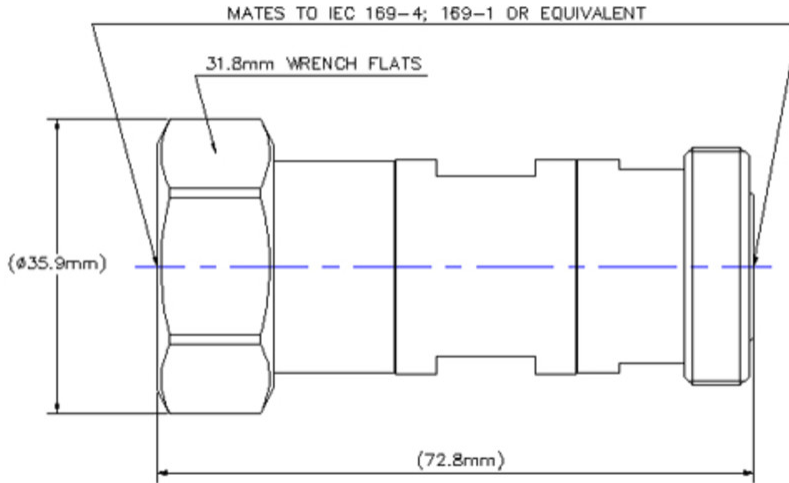
<b>Inner Contact Plating</b>	Silver
<b>Interface</b>	7-16 DIN Female
<b>Interface 2</b>	7-16 DIN Male
<b>Outer Contact Plating</b>	Trimetal
<b>Pressurizable</b>	No

## Dimensions

<b>Height</b>	36.07 mm   1.42 in
<b>Width</b>	36.07 mm   1.42 in
<b>Length</b>	72.9 mm   2.87 in

## Outline Drawing

# ADCB-DFDM-DB



## Electrical Specifications

<b>3rd Order IMD</b>	-116 dBm
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>Insertion Loss, typical</b>	0.1 dB
<b>Average Power at Frequency</b>	250.0 W @ 1,940 MHz   500.0 W @ 883 MHz
<b>Connector Impedance</b>	50 ohm
<b>dc Test Voltage</b>	48 V
<b>Injector Port to Antenna Isolation, minimum</b>	-70 dB
<b>Operating Frequency Band</b>	650 – 2700 MHz
<b>Peak Power, maximum</b>	13 kW

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
650–2700 MHz	1.13	24.29

## Mechanical Specifications

<b>Attachment Durability</b>	25 cycles
<b>Coupling Nut Proof Torque</b>	24.86 N-m   220.03 in lb
<b>Coupling Nut Retention Force</b>	1,000.85 N   225 lbf
<b>Coupling Nut Retention Force Method</b>	MIL-C-39012C-3.25, 4.6.22
<b>Interface Durability</b>	500 cycles

# ADCB-DFDM-DB

---

<b>Interface Durability Method</b>	IEC 61169-16:9.5
<b>Mechanical Shock Test Method</b>	MIL-STD-202F, Method 213B, Test Condition C
<b>Environmental Specifications</b>	
<b>Operating Temperature</b>	-40 °C to +45 °C (-40 °F to +113 °F)
<b>Storage Temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F
<b>Corrosion Test Method</b>	MIL-STD-1344A, Method 1001.1, Test Condition A
<b>Immersion Depth</b>	1 m
<b>Immersion Test Mating</b>	Mated
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Moisture Resistance Test Method</b>	MIL-STD-202F, Method 106F
<b>Thermal Shock Test Method</b>	MIL-STD-202F, Method 107G
<b>Vibration Test Method</b>	MIL-STD-202F, Method 204D, Test Condition B
<b>Water Jetting Test Mating</b>	Mated
<b>Water Jetting Test Method</b>	IEC 60529:2001, IP66

## Packaging and Weights

<b>Weight, net</b>	0.209 kg   0.46 lb
--------------------	--------------------

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on <a href="https://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## \* Footnotes

<b>Insertion Loss, typical</b>	0.05√freq (GHz) (not applicable for elliptical waveguide)
<b>Immersion Depth</b>	Immersion at specified depth for 24 hours