

DFA07850B AirCell® 50 Ohm Connectors

For use with AirCell® 7/8" 50 Ohm Transline and Radiating Cables

Description	DFA07850B
General Specifications	
Interface	7/16 DIN Female
Body Style	Straight
Electrical Specifications	
Impedance, Ohms	50
Operating Frequency Band	0.3 MHz to 3 GHz
Dielectric Withstand Voltage	4 kV DC
3rd Order IMD	-153 dBc minimum, -160 typical
3rd Order IMD, Test Method	2 x 20 Watt carriers
Average Power	3 kW
Peak Power, maximum	40 kW
Insertion Loss, typical	0.05
Shielding Effectiveness	-130 dB
Return Loss (VSWR)	
DC to 1 GHz	39 dB (1.02)
1 GHz to 2 GHz	38 dB (1.03)
2 GHz to 3 GHz	34 dB (1.04)
Mechanical Specifications	
Outer Contact Plating	Silver
Inner Contact Plating	Silver
Interface Durability	500 cycles
Interface Durability Test Method	IEC 16916
Minimum Connector Pull-off Force	550 lbs
Environmental Specifications	
Operating Temperature, °F (°C)	-40° to 158° (-40° to 70°)
Storage Temperature, °F (°C)	-40° to 158° (-40° to 70°)
Installation Temperature, °F (°C)	23° to 122° (-5° to 50°)
Immersion Test Method	IEC60529:2001 IP68
Corrosion Test Method	MIL-STD-1344A
Thermal Shock Test Method	MIL-STD-202F
Vibration Test Method	MIL-STD-202F
Regulatory Compliance/Certifications	
RoHS 2011/65/EU Compliant	
TL 9000 H-V	



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