Aerospace Devices Inc.

SmartDock. Smallest Ruggedized, Water-Proofness

USB A PED Charger Available USB In-Seat Charger

SMD-200™ USB Internal Power Supply is Encapsulated by a Harsh Enviroment Potting Compound.

CHARGING THE FUTURE
www.aerospacedevice.com

AEROSPACE & DEFENSE REVIEW 2024

USB CHARGING PLUG & DEVICES COMPANY OF THE YEAR

Specifications

Input power current 14V to 28V
Maximum output current 3A at 5V
Main power typical current 0.5A at 28V
Reverse power input connection protection
Short circuit output protection
Thermal protection
Backlight USB Connector
Width 2.08 in
Depth1.3 in
Height 0.8 in
Wheight 0.05 lb
Wire length 6 in
Positive Wire - White
Negative Wire - White / Black

The **SmartDock™** charges the latest portable electronic devices without the need for an external power outlet. As a DO-160 certified component, it satisfies the highest standards of the aerospace industry. The SmartDock PCB Power supply is encapsulated in a waterproof, Harsh Enviroment Potting Compound and is the most compact and lightweight device of its kind on the market, and is extremely easy to install. It also protects itself and the charging device against external short circuits and power surges. ASD Inc. offers customization for the internal signature in order to charge special devices that may not recognize the default signature. The default signature is made for Apple iPads, iPods and iPhones as well for most standard USB-charged devices such as music players, digital cameras, smartphones and tablets. A discrete backlight is also available inside the USB connector for night usage. The **SmartDock™** is highly recommended for **SkyPad™** owners as it has the necessary power to keep iPads charged during heavy use.

The SmartDock™ faceplate offers more flexibility to the OEM for customized installations. Various plating options are available, allowing the SmartDock™ to seamlessly blend in with the aesthetics of the existing controls in the cabin. The SmartDock™ can also be ordered without any plating, enabling the OEM to custom plate them independently using the same plating company as the rest of the controls in the cabin.

SmartDock Faceplate Optional, Call for Quote. PN: 908-2044-XXX where XXX is color plating information

2.1 Test Matrix RTF DO-160F

Section.	Requirement Category
4.5.1 Ground Survival Low Temperature	A-55C
4.5.1 Short-term operating low temperature	A1 -40C
4.5.2 Operating Low Temperature	A1 15C
4.5.3 Ground Survival High Temperature	A1 +85C
4.5.3 Short-term Operating High Temp.	A1 +70C
4.5.4. Operating High Temperature	A1 +55°
4.6.1 Altitude	A1 15,000 Ft.
4.6.3 Overpressure	A1 Standard
5.0 Temperature Variation	C 2°C/Min
6.3.1 Standard Humidity Env.	A Standard
7.2.1 Operational Shock	B Standard
7.3.1 Crash Safety (Impulse)	A Standard
7.3.3 Crash Safety (Sustained)	B Impulse
8.0 Vibration S Curve	C
13.0 Fungus Resistance	F By Analysis
15.0 Magnetic Effect	Z < 0.3 m inside the aircraft
16.6 Power Input	B 28VDC Nom
17.0 Voltage Spike	B 56VDC/2usec
18.0 Audio Frequency Susceptibility Power Inputs	A Standard
19.0 Induced Signal Susceptibility	B Impulse
21.4 Conducted Emissions	C
21.5 Radiated Emissions	F By Analysis
25.0 Electrostatic Discharge	Z < 0.3 m inside the aircraft
	B DC Input Power Leads
	BC +28VDC
	M
	M
	A Aerospace Env.

FAA DO160F, TCA Letter of Assist, TSO Pending

Ordering Information

SMD-200 Aviation's Lightest, Smallest USB A PED, EFB Charging Ports
PART NAME: SMARTDOCK SMD-200 USB A In-Seat charger
Part (order) # 908-2040-001
Test Report No. PR009251 Rev. 3
Certification Plan CP09106-1
QTP-9082040 Rev. E
TCCA STC Approval and Design Data.
INSTALLED: Bombardier Global Airframe.
Global 8000, Global 7500, Global 6500, Global 5500

Aerospace Devices Inc.
18 Corriente, Irvine, CA 92614
Email: rpecanic@aerospacedevices.com
Website: www.aerospacedevice.com
Phone: 949 795 2889

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