

Custom Model 70028-02 3 Watt High Voltage DC/DC Power Supply

Features

- 70,000 MTBF
- Hi Rel Components
- Rugged Package
- Ion Current Sample



Specifications

Electrical

DC OUTPUT

VOLTAGE:..... 3000 VDC

CURRENT:..... 1.0 mAmp

REGULATION:

Line:..... ±30 V

Load:..... 3000 to 2500 VDC

Line/Load/Temp:..... 2470 to 3030 VDC

RIPPLE:..... 25 V p-p

OVERCURRENT PROTECTION:.... Current limit, no damage

ION CURRENT SAMPLE:..... Reference Voltage

DC INPUT:

Per MIL-STD-704A, Curve 1

24 to 30 Volts DC

INPUT TRANSIENT PROTECTION:

MIL-STD-704A, Curve 1, 80 V 0.1 sec

REVERSE VOLTAGE PROTECTION:

50 VDC max

EMI :

Per MIL-STD-461A except CE02, CE03, relaxed 20dB

Hours	Condition	Ambient
70,000	A _{UF}	+71°C

Mechanical

Weight:..... 20 oz.
Dim:..... 4.00" x 2.00" x 1.56"
Cooling:..... Conduction
Termination:..... Mil-type Connectors
Mounting:..... Captive hardware
Case Matl:..... Aluminum
Encapsulation:..... RTV-11
Finish:..... Gray
Elect. Parts:
 IC's..... MIL-STD-883 or equiv
 Transistors..... JANTX or equiv
 Diodes..... JANTX or equiv
 Capacitors..... ER level "P" or equiv
 Resistors..... ER level "P" or equiv
 PC Boards..... MIL-P-55110

Environmental

TEMPERATURE, OPERATING:

-55°C to +71°C baseplate

TEMPERATURE, STORAGE:

-55°C to +125°C

MIL-STD-202D:

Shock
Vibration
Moisture
Altitude
Fungus
Salt atmosphere