

Modular Devices, Inc.

Screening Grades of High Power DC - DC Converter Space Power Supply

Screening Level Name	Designator
Engineering Unit	EU
Low Rad	L
Low Rad Enhanced	LE
Space	S
Space Enhanced	SE

KEY OPERATIONAL PARAMETERS					
MDI GRADE	EU	L	LE	S	SE
Radiation (TID Si)	Not Rated	45 kRad	45 kRad	100 kRad	100 kRad
Operating Temp Range Baseplate	-55°C to +70°C	-55°C to +85°C	-55°C to +100°C	-55°C to +85°C	-55°C to +100°C
Output Derates to Zero at °C	Not Rated	105°C	125°C	105°C	125°C

SCREENING REQUIREMENTS				SCREENING PARAMETERS	SCREENING ATTRIBUTES CHECKLIST				
Test	MIL-STD-883	MIL-STD-883	Detail						
Procedure	Rev/Method	Condition	Requirements						
Burn-in	K 1015	B	Maximum applied voltage and current	Nominal input voltage and 100% rated load	Room Ambient 24 hrs	85°C Tbaseplate 48 hrs	100°C Tbaseplate 96 hrs	85°C Tbaseplate 48 hrs	100°C Tbaseplate 96 hrs
Electrical Test	—	—	Functional Test	MDI ATP	25°C testing with data	-55°C, 25°C, 85°C testing with data	-55°C, 25°C, 100°C testing with data	-55°C, 25°C, 85°C testing with data	-55°C, 25°C, 100°C testing with data

Note: Hybrid microcircuits contained within are screened in accordance with the grade level specified by the High Power DC-DC Converter Space Power Supply grade designator.

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