PRESIDIO COMPONENTS, INC.

M123 vs CDR CHIPS

What is the Difference Between CDR and 123?

We are frequently asked this question. The table below summarizes the differences. For more details please refer to MIL-PRF-55681 and MIL-PRF-123. These specifications can be found on DSCC's website at www.dscc.dla.mil. Presidio strongly recommends the use of MIL-PRF-123 parts for space flight applications.

CRITERIA	MIL-PRF-123	MIL-PRF-55681
Design Control	0.8 Mil Minimum Dielectric Thickness	NONE
Base Metal Electrodes	PROHIBITED	NOT PROHIBITED
100% Tin Termination Finish	PROHIBITED	NOT PROHIBITED
DPA Requirement	Sample Per M123 Table	Not Required
Non-Destructive Testing	Yes — 100%	Not Required
Group A Thermal Shock	20 Cycles Per M123	NONE
Voltage Conditioning	168 Hours Min; 264 Hours Max PDA < 0.1% or 1 Part, in the Last 48 Hours	100 Hours
	2% or 3% Overall PDA, Depending on Case Size	8% Overall PDA
Insulation Resistance @125°C	100%	SAMPLE
Visual Inspection	100%	SAMPLE
85/85 Humidity	YES	Required Every 6 Months
Group B Thermal Shock	100 Temp. Cycles Each Lot	NONE
Group B Life Test	1000 Hours Each Lot	Required Every 6 Months

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