

# PRESIDIO SCREENING LEVELS

## SR#M123 · SR#N1 · HR#N2 · CDR · 06019

SCREENING LEVELS See Complete Descriptions on Page 16		Group A & B Per MIL-PRF-123	NASA EEE-INST-002 Level 1	NASA EEE-INST-002 Level 2	MIL-PRF-55681 CDR TYPE Capacitors	06019	
PREFIX:		SR	SR	HR	CDR11, 12, 13 or 14	SR	
SCREENING LEVEL CODES:		#M123	#N1	#N2	(See Pg. 14 & 15)	(Blank)	
BASIC TESTING	Capacitance	100%	100%	100%	100%	100%	
	Dissipation Factor	100%	100%	100%	100%	100%	
	Dielectric Withstanding Voltage (DWW)	100%	100%	100%	100%	100%	
	Insulation Resistance (IR at 25°C)	100%	100%	100%	100%	100%	
	Insulation Resistance (IR at 125°C)	100%	100%	NO	SAMPLE Only	100%	
	Solderability or Wirebonding Test	YES	YES	YES	YES	YES	
ENVIRONMENTAL TESTING AND RELIABILITY SCREENING	Thermal Shock (20 Cycles)	GROUP A	YES	YES	YES 5 Cycles	Periodic Testing (5 cycles)	YES 20 Cycles
	Voltage Conditioning (100%)		168 Hrs. Min. with 0.1% or 1 pc. in the last 48 Hrs.	160 Hrs.	96 Hrs.	100 Hrs.	168 Hrs. Min. with 0.1% or 1 pc. in the last 48 hours
	Percent Defective Allowed (PDA)		5%	5%	10%	8%	3%
	Destructive Physical Analysis (DPA)		YES	YES	YES	NO	YES
	Voltage Temperature Limit		12 pcs. (when applicable)	12 pcs. (when applicable)	6 pcs. (when applicable)	Periodic Testing	12 pcs.
	Visual Inspection		100%	100%	100%	Samples	100%
	Mechanical Inspection (Dimensions)		YES	YES	YES	YES	YES
	Thermal Shock (100 Cycles)	GROUP B	YES	NO	NO	Periodic Testing (5 cycles)	100 cycles
	Life-Test		Rejects allowed for 1000 Hrs 0/25, 1/80, 2/125 pcs.	2000 Hrs., 22 pcs., <b>0 rejects allowed</b>	1000 Hrs., 22 pcs. 1 reject allowed	Periodic Testing (5 cycles)	Rejects allowed for 1000 Hrs 0/25, 1/80, 2/125 pcs.
	Ultrasonic Examination		Code A = 100% Code B = None	NO	NO	NO	100%
	Humidity Steady State Low Voltage		YES	YES	YES	NO (only for qualification once a year)	YES
	Moisture Resistance		Optional for Size 0805 and larger	YES for Size 0805 and larger	YES for Size 0805 and larger	NO (only for qualification once a year)	YES
	Terminal Strength	GROUP C	OPTIONAL	NO	NO	NO	Periodic Testing
	Solderability		OPTIONAL	YES	YES	YES	YES
	Resistance to Soldering Heat		OPTIONAL	YES	YES	NO	Periodic Testing
	Equivalent Series Resonance (ESR) In Accordance with MIL-PRF-55681			N/A	N/A	N/A	YES 6 pcs.
	Series Resonance In Accordance with MIL-PRF-55681			N/A	N/A	N/A	YES Periodic Testing 6 pcs.
	<b>RECOMMENDED FOR SPACE FLIGHTS</b>		YES		YES	YES	YES for S-Level
<b>LEAD-TIME ARO ( Weeks)</b>		3 to 22		3 to 28	3 to 22	3 to 13	

SR	1010	UP	101	J	6	T	1	C	(A)	#M123	A
Prefix *	Size	Dielectric (See Page 3)	Capacitance	Capacitance Tolerance	Voltage	Termination	Packaging	RoHS Compliant	Design-In Code (See Page 19)	Screening Level (See Above)	Ultrasonic A = 100% B = None