

# PRESIDIO SCREENING LEVELS

COMMERCIAL • HR • CR • SR#M123 • SR#N1 • HR#N2 • CDR • 06019

SCREENING LEVELS See Descriptions on Website	Commercial*	Voltage Cond. Per Group A of MIL-PRF-55681	DPA & Voltage Cond. Per Group A of MIL-PRF-55681	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:	(Blank)	HR	CR	SR	SR	HR	CDR11/12/13/14	SR		
SCREENING LEVEL CODES:	(Blank)	(Blank)	(Blank)	#M123	#N1	#N2	(See Pg. 14 & 15)	(Blank)		
BASIC TESTING	Capacitance	100%	100%	100%	100%	100%	100%	100%		
	Dissipation Factor	100%	100%	100%	100%	100%	100%	100%		
	Dielectric Withstanding Voltage (DWV)	100%	100%	100%	100%	100%	100%	100%		
	Insulation Resistance (IR at 25°C)	100%	100%	100%	100%	100%	100%	100%		
	Insulation Resistance (IR at 125°C)	NO	NO	NO	100%	100%	NO	SAMPLE Only	100%	
	Solderability or Wirebonding Test	YES	YES	YES	YES	YES	YES	YES	YES	
ENVIRONMENTAL TESTING AND RELIABILITY SCREENING	Thermal Shock (20 Cycles)	GROUP A	NO	NO	NO	YES	YES	YES 5 Cycles	Periodic Testing (5 cycles)	YES 20 Cycles
	Voltage Conditioning (100%)		NO	8 Hrs. Min.	100 Hrs.	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)		NO	8%	8%	5%	5%	10%	8%	3%
	Destructive Physical Analysis (DPA)		NO	NO	YES	YES	YES	YES	NO	YES
	Voltage Temperature Limit		NO	NO	NO	12 pcs. (when applicable)	12 pcs. (when applicable)	6 pcs. (when applicable)	Periodic Testing	12 pcs.
	Visual Inspection		Samples	Samples	Samples	100%	100%	100%	Samples	100%
	Mechanical Inspection (Dimensions)		YES	YES	YES	YES	YES	YES	YES	YES
	Thermal Shock (100 Cycles)	GROUP B	NO	NO	NO	YES	NO	NO	Periodic Testing (5 cycles)	100 cycles
	Life-Test		NO	NO	NO	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		NO	NO	NO	Code A = 100% Code B = None	NO	NO	NO	100%
	Humidity Steady State Low Voltage		NO	NO	NO	YES	YES	YES	NO (only for qualification once a year)	YES
	Moisture Resistance		NO	NO	NO	Optional for Size 0805 and larger	YES for Size 0805 and larger	YES for Size 0805 & larger	NO (only for qualifica- tion once a year)	YES
	Terminal Strength	GROUP C	NO	NO	NO	OPTIONAL	NO	NO	NO	Periodic Testing
	Solderability		NO	NO	NO	OPTIONAL	YES	YES	YES	YES
	Resistance to Soldering Heat		NO	NO	NO	OPTIONAL	YES	YES	NO	Periodic Testing
Equivalent Series Resonance (ESR) In Accordance with MIL-PRF-55681	N/A	N/A	N/A	N/A	N/A	N/A	N/A	YES	YES 6 pcs.	
Series Resonance In Accordance with MIL-PRF-55681	N/A	N/A	N/A	N/A	N/A	N/A	N/A	YES Periodic Testing	YES 6 pcs.	
<b>RECOMMENDED FOR SPACE FLIGHTS</b>	NO	NO	NO	YES	YES	YES	YES for S-Level	YES		
LEAD-TIME ARO ( Weeks)	3 to 13	3 to 13	3 to 13	3 to 22	3 to 28	3 to 22	3 to 13	3 to 22		

Contact Presidio for more information about our screening options.

Presidio's UP capacitors can be upscreened to SPACE LEVEL testing. Consult the factory for details. Some voltage derating may apply.

## PART NUMBER EXAMPLE (How to Order)

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