

PRESIDIO SCREENING LEVELS

CDR • HR#55681 • SR • SR#M123 • SR#S311 • SR#N1 • HR#N2

SCREENING LEVELS See Complete Descriptions on Page 16		MIL-PRF-55681 CDR TYPE Capacitors	Group A & B Per MIL-PRF-55681	Group A Per MIL-PRF-123 Plus Options	Group A & B Per MIL-PRF-123	Screened Per NASA DWG S311-P-829	NASA EEE-INST-002 Level 1	NASA EEE-INST-002 Level 2
PREFIX:		CDR 11, 12 or 13	HR	SR	SR	SR	SR	HR
SCREENING LEVEL CODES:		(See Pg. 14 & 15)	#55681	(Blank)	#M123	#S311	#N1	#N2
BASIC TESTING	Capacitance	100%	100%	100%	100%	100%	100%	100%
	Dissipation Factor	100%	100%	100%	100%	100%	100%	100%
	Dielectric Withstanding Voltage	100%	100%	100%	100%	100%	100%	100%
	Insulation Resistance	100%	100%	100%	100%	100%	100%	100%
	Insulation Resistance	SAMPLE Only	SAMPLE Only	100%	100%	100%	100%	Sample
	Solderability or Wirebonding Test	YES	YES	YES	YES	YES	YES	YES
RELIABILITY TESTING	Thermal Shock (20 Cycles)	NO	NO	YES	YES	YES	YES	YES 5 Cycles
	Voltage Conditioning	100 Hrs.	100 Hrs.	168 H Min. with 0.1% or 1 pcs. in the last 48 Hrs.	168 H Min. with 0.1% or 1 pcs. in the last 48 Hrs.	168 H Min. with 0.1% or 1 pcs. in the last 48 Hrs.	160 Hrs.	96 Hrs.
	Percent Defective Allowed	8%	8%	5%	5%	5%	5%	10%
	Destructive Physical Analysis (DPA)	NO	NO	YES	YES	YES	YES	YES
	Voltage Temperature Limit	NO (only for qualification once a year)	Yes when applicable	Optional 12 pcs. (when applicable)	N/A	N/A	12 pcs.	6 pcs.
	Visual Inspection	Samples	Samples	100%	100%	100%	100%	100%
	Mechanical Inspection	YES	YES	YES	YES	YES	YES	YES
	Thermal Shock (100 Cycles)	NO	NO	OPTIONAL	YES	YES	NO	NO
	Life-Test	NO (only for qualification once a year)	2000 Hrs, 25 pcs. 1 rejects allowed	OPTIONAL	1000 Hrs. 25 or 80 or 125 pcs. 0/1/2 rejects allowed	1000 Hrs. 45 or 125 pcs. 0 rejects allowed	2000 Hrs., 22 pcs. 0 rejects allowed	1000 Hrs. 22 pcs. 1 reject allowed
	Ultrasonic Examination	NO	NO	OPTIONAL	YES Sample 100% Optional	YES Sample 100% Optional	Not required	Not required
	Humidity Steady State Low Voltage	NO (only for qualification once a year)	YES	OPTIONAL	YES	YES	YES	YES
	Moisture Resistance	NO (only for qualification once a year)	YES for Size 0805 and larger	Optional for Size 0805 and larger	Optional for Size 0805 and larger	Optional for Size 0805 and larger	YES for Size 0805 and larger	YES for Size 0805 and larger
	Terminal Strength	NO	NO	OPTIONAL	OPTIONAL	OPTIONAL	NO	NO
	Solderability	NO	NO	OPTIONAL	OPTIONAL	OPTIONAL	YES	YES
	Resistance to Soldering Heat	NO	NO	OPTIONAL	OPTIONAL	OPTIONAL	YES Radiographic Inspection *	YES
RECOMMENDED FOR SPACE FLIGHTS		YES for S-Level	YES with full Group C	YES (depending on screening options purchased)	YES	YES	YES	YES
LEAD-TIME ARO (Weeks)		3 to 13	3 to 13	3 to 22	3 to 22	3 to 22	3 to 28	3 to 22

Call Presidio if you would like more information on our screening options.

* Radiographic inspection is usually waived as it is not relevant for non-leaded parts.

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	#M123	A
Prefix *	Size	Dielectric (See Page 3)	Capacitance	Capacitance Tolerance	Voltage	Termination	Packaging	RoHS Compliant	Screening Level (See Above)	Design-In Code (See Page 19)

* Leave blank for Commercial parts