

# PRESIDIO SCREENING LEVELS

INDUSTRIAL • HR • CR • SR#M123 • S311P829 • HR#N2 • CDR • 06019/022

SCREENING LEVELS See Descriptions on Website	Industrial 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 DWG S311-P-829 TOR Compliant	NASA EEE-INST-002 Level 2	MIL-PRF-55681 CDR TYPE Capacitors	06019 06022	
PREFIX:	(Blank)	HR	CR	SR	SR	HR	CDR11/12/13/14	SR	
SCREENING LEVEL CODES:	(Blank)	(Blank)	(Blank)	#M123	G311P829	#N2	(See Pg. 16 & 17)	(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)	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.	168 Hrs. Min. with 0.1% or 1 pc. in the last 48 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)	NPO Only	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)	NO	NO	NO	YES	YES	NO	Periodic Testing (5 cycles)	100 cycles
	Life-Test	NO	NO	NO	Rejects allowed for 1000 Hrs 0/25, 1/80, 2/125 pcs.	1000 Hrs., 45 or 125 pcs. 0 rejects allowed	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	100%	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 - Size 0805 / 0612 and larger	YES for Size 0805 & larger	NO (only for qualification once a year)	YES
	Terminal Strength	NO	NO	NO	OPTIONAL	OPTIONAL 0805 and larger	NO	NO	Periodic Testing
	Solderability	NO	NO	NO	OPTIONAL	YES	YES	YES	YES
	Resistance to Soldering Heat	NO	NO	NO	OPTIONAL	OPTIONAL	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	YES	YES 6 pcs.	
Series Resonance In Accordance with MIL-PRF-55681	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	

Contact Presidio for more information about our screening options. See S311P829 Specification linked here.

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	NPO	101	J	6	T	1	C	(-)	#M123	A
Prefix *	Size	Dielectric	Capacitance	Capacitance Tolerance	Voltage	Termination	Packaging	RoHS Compliant	Design-In Code (See end of catalog)	Screening Level (See Above)	Ultrasonic A = 100% B = None