SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY CHICAGO
Website: www.element.com

Tests:	Test Method(s):
Radiated Immunity (80 MHz to 2.7 GHz)	EN/IEC 61000-4-3; AS/NZS 61000.4.3; MIL-STD-461E, F, G (RS101, RS103, RS105); MIL-STD-462D (RS101, RS103); RTCA/DO-160, E, F, G (Section 20.5); ISO 11452-2; ISO 11452-3; ISO 11451-2; ISO 11451-3
Electrical Fast Transient/Burs	EN/IEC 61000-4-4; AS/NZS 61000.4.4;
Transient via lines other than supply lines	ISO 7637-3
Surge Immunity	EN/IEC 61000-4-5; KS C 9610-4-5; AS/NZS 61000.4.5
Automotive (Load Dump)	ISO 16750-2 (Load Dump)
Conducted Immunity	EN/IEC 61000-4-6; AS/NZS 61000.4.6; MIL-STD-461 E, F, G (CS103, CS104, CS105, CS109, CS114, CS115, CS116); MIL-STD-462 D (CS103, CS104, CS105, CS109, CS114, CS115, CS116); RTCA/DO-160, E, F, G (Section 20); ISO 11452-4; ISO 11451-4;
Power Frequency Magnetic Field Immunity	EN/IEC 61000-4-8 (excluding short duration mode); AS/NZS 61000.4.8 (excluding short duration mode); ISO 11452-8 (Radiating Loop Method);
Voltage Dips, Short Interruptions, and Line Voltage Variations	EN/IEC 61000-4-11
Power Input	RTCA/DO-160 E, F, G (Section 16); MIL-STD-704, D, E, F; ISO 16750-2
Generic and Product Family Standards	EN/IEC 61000-6-1; AS/NZS 61000.6.1; EN/IEC 61000-6-2; AS/NZS 61000.6.2; CISPR 14-2; EN 55014-2; AS/NZS CISPR 14-2; CISPR 24; EN 55024; AS/NZS CISPR 24; EN/IEC 60601-1-2; EN/IEC 60947-1; EN/IEC 60439-1; EN/IEC 61326-1; EN/IEC 61326-2; EN 50130-4; EN 50131-1; EN 61800-3; IEC 61800-3 (up to 75A, 1000V); EN 14982; ISO 14982 (using component methods except ISO 7637 and ISO 11452-3); ISO 13766:2006 Ed 2.0; EN 12895:2015; IEC 60945; ECE R10
Insulation Resistance (*1 kΩ to 10 TΩ*)	MIL-STD-202, Method 302; ASTM D257

Tests:	Test Method(s):
High Voltage/Dielectric Withstanding Voltage (Up to 50 kV AC & 60 KV DC)	ASTM D149 Types 1, 3, & 4; MIL-STD-202, Method 301
Contact Resistance, Low Level Contact Resistance (LLCR) (*100 µΩ to 200 kΩ*)	MIL-STD-202, Method 303, 304, 307; MIL-DTL 83513G, Method 3.5.6

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Fe Regulations and FCC KDB 974614, Appendix A, Table A.1[1]

Rule Subpart/Technology:	Test Method:	Maximum Frequency (MHz):
Unintentional Radiators		
Part 15B	ANSI C63.4:2014	10000
Industrial, Scientific, and Medical Equipment		
Part 18	FCC MP-5:1986	10000

[1] Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories

A2LA has accredited

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 . This accreditation demonstrates technical competence for a defined