



SCOPE OF ACCREDITATION TO ISO/IEC 17025:20

ELEMENT MATERIALS TECHNOLOGY CHICAGO (e)-1.f(o)-7Tw237d ( o)-70.00( 92.6 :2-L)2.3  
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<u>Tests:</u>	<u>Test Method(s):</u>
Radiated Immunity (80 MHz to 2.7 GHz)	EN/IEC 61000-3; 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 114522; ISO 114523; ISO 114512; ISO 114513
Electrical Fast Transient/Bursts	EN/IEC 61000-4; AS/NZS 61000.4.4;
Transient via lines other than supply lines	ISO 76373
Surge Immunity	EN/IEC 61000-5; KS C 96104-5; AS/NZS 61000.4.5
Automotive (Load Dump)	ISO 167502 (Load Dump)
Conducted Immunity	EN/IEC 61000-6; 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 114524; ISO 114514;
Power Frequency Magnetic Field Immunity	EN/IEC 61000-8 (excluding short duration mode) AS/NZS 61000.4.8 (excluding short duration mode) ISO 114528 (Radiating Loop Method)
Voltage Dips, Short Interruptions, and Line Voltage Variations	EN/IEC 61000-11
Power Input	RTCA/DO-160E, F, G (Section 16); MIL -STD-704, D, E, F; ISO 167502
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 142; EN 550142; AS/NZS CISPR 142; CISPR 24; EN 55024; AS/NZS CISPR 24; EN/IEC 606011-2; EN/IEC 609471; EN/IEC 604391; EN/IEC 613261; EN/IEC 613262; EN 501304; EN 501311; EN 618003; IEC 618003 (up to 75A, 1000V) EN 14982; ISO 14982 (using component methods except ISO 7637 and ISO 11452- ISO 13766:2006 Ed 2.0; EN 12895:2015; IEC 60945; ECE R10
Insulation Resistance (1 k to 10 T )	MIL -STD-202, Method 302; ASTM D257

Tests:

High Voltage/Dielectric  
Withstanding Voltage  
(Up to 50 kV AC & 60 KV DC)

Test Method(s):

ASTM D149 Types 1, 3, & 4;  
MIL -STD-202, Method 301

Contact Resistance, Low Level MIL -STD-202, Method 303, 304 307;

Contact Resistance (LLCR) MIL -DTL 83513G, Method 3.5.6

(100 μ to 200 k )

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table<sup>1</sup>A.1

Rule Subpart/Technology	Test Method:	Maximum Frequency (MHz):
<u>Unintentional Radiators</u> Part 15B	ANSI C63.4:2014	10000
<u>Industrial, Scientific, and Medical Equipment</u> Part 18	FCC MP5:1986	10000

<sup>1</sup> 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





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