SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMEN

Test Technology:	Test Specification/Method(s):
	ISO 11452-11 ISO 11452-11 (2010)
Conducted Transient Emissions	ISO 7637-2 Conducted Transient Emissions ISO 7637-2 (2004) Conducted Transient Emissions
Conducted Transient Immunity Power/Supply Lines	ISO 7637-2 Conducted Transient Immunity ISO 7637-2 Conducted Transient Immunity (2004) (Pulses 1, 2a, 2b, 3a, 3b, 4, 5a, 5b) ISO 7637-2 Conducted Transient Immunity (2011) (Pulses 1, 2a, 2b, 3a, 3b) ISO 16750-2 Conducted Immunity (Pulses 4, 5a, 5b)
Conducted Transient Immunity Other than Power/Supply Lines	ISO 7637-3 Capacitive Coupling Clamp (CCC) Direct Capacitor Coupling (DCC)

Test Technology:	Test Specification/Method(s):
- Overload – All Circuits	GMW 3172[2]
- Crank Pulse Capability and Durability	
- Switched Battery Line	
- Multiple Power and Multiple Ground Short	
- Circuit Including Pass Through	
- Fretting Corrosion Degradation	
Electrical Tests Based on MIL-STD 202:	
- Dielectric Withstanding Voltage	MIL-STD-202G, Method 301
- Insulation Resistance	MIL-STD-202G, Method 302
- DC Resistance	MIL-STD-202G, Method 303
- Resistance Temperature Characteristic	MIL-STD-202G, Method 304
Electrical Tests Based on USCAR-2	
- Dry Circuit Resistance	USCAR-2
- Voltage Drop	USCAR-2
- Insulation Resistance	USCAR-2

Test Type	Test Parameters
Voltage	
AC – Measure[1]	1 µV to 400 V @ 1 Hz to 250 MHz
AC – Generate[1]	1 mV to 10 V @ 1 Hz to 80 MHz
DC – Measure[1]	1 mV to 1,000 V
DC – Generate[1]	1 mV to 1,000 V

Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY BURTON

Burton , MI

for technical competence in the field of ElectricalTesting for the competence of testing nd calib
technical competence for a defined scope an the ope
(refer to joint ISO -ILAC AF Con

Presented this 3rd day of May 2022.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1123.02
Valid to May 31, 2024
Revised September 22, 2023

For the types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.