

<b>Laboratory</b>	<b>EAX2 Testing Laboratory, Robert Bosch Engineering &amp; Business Solutions Private Limited, #703 Building, Hosur Road, Naganathapura, Bangalore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electrical Testing</b>	<b>Issue Date</b>	<b>10.03.2016</b>
<b>Certificate Number</b>	<b>T-2715</b>	<b>Valid Until</b>	<b>09.03.2018</b>
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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I. ENVIRONMENTAL TEST FACILITY</b>				
<b>1.</b>	<b>Road Vehicles- Environmental conditions and testing of Electronic Control Units, Components And Gadgets</b>	Low-Temperature Test- Storage Test	ISO16750 (Part 4): 2010 IEC 60068-2-1: 2007	0 °C to (-) 40 °C
		Low-Temperature Test- Operation Test	ISO16750 (Part 4): 2010 IEC 60068-2-1: 2007	0 °C to (-) 40 °C
		High-Temperature Test- Storage Test	ISO16750 (Part 4): 2010 IEC 60068-2-2: 2007	Ambient to (+) 125 °C
		High-Temperature Test- Operation Test	ISO16750 (Part 4): 2010 IEC 60068-2-2: 2007	Ambient to (+) 125 °C
		Temperature Step Test	ISO16750 (Part 4): 2010	(-) 40 °C to (+) 125 °C
		Temperature Cycling Tests	ISO16750 (Part 4): 2010 IEC 60068-2-14: 2009, Test Nb	(-) 40 °C to (+) 125 °C
		Rapid Change of Temperature With Specified Transition Duration	ISO16750 (Part 4): 2010 IEC60068-2-14, test Na	(-) 40 °C to (+) 125 °C
		Damp Heat Cyclic Test	ISO16750 (Part 4): 2010 IEC 60068-2-30: 2005	(-) 40 °C to (+) 125 °C 30 % to 95 % RH @ 25 °C to 90 °C
		Composite Temperature/ Humid Cyclic Test	ISO16750 (Part 4): 2010 IEC 60068-2-38: 2009	(-) 40 °C to (+) 125 °C 30 % to 95 % RH @ 25 °C to 90 °C
Dewing Test	ISO16750 (Part 4): 2010 IEC 60068-2-30: 2005	(-) 40 °C to (+) 125 °C 30 % to 95 % RH @ 25 °C to 90 °C		

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Road Vehicles- Environmental Conditions And Testing Of Electronic Control Units, Components And Gadgets</b>	Salt Spray Tests- Salt Mist Test Corrosion Test	ISO16750 (Part 4): 2010 IEC 60068-2-11: 1981 Test Ka IEC60068-2-52: 1996 Test Kb	25 °C to (+) 55 °C 95 % RH
		Sinusoidal Vibration	ISO 16750 (Part 3): 2012 IEC 60068-2-6 : 2007	Frequency: 10 Hz to 2000 Hz Acceleration level: 0.1 g to 60 g for weight upto 3.5 kg 0.1 g to 8 g for weight upto 400 kg Displacement: Upto 50.8 mm
		Random Vibration	IEC 60068-2-64: 2008	Frequency: 10 Hz to 2000 Hz Acceleration level: 0.1 g to 60 g for weight upto 3.5 kg 0.1 g to 8 g for weight upto 400 kg Displacement: upto 50.8 mm
		Combined Temperature and Vibration Test	ISO 16750 (Part 3): 2012(E) ISO16750 (Part 4): 2005 IEC 60068-2-14	Frequency: 10 Hz to 2000 Hz Acceleration level: 0.1 g to 60 g for weight upto 3.5 kg 0.1 g to 8 g for weight upto 400 kg Displacement: Upto 50.8 mm

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	<b>Road Vehicles- Environmental Conditions And Testing Of Electronic Control Units, Components And Gadgets</b>	Combined Temperature and Vibration Test	ISO 16750 (Part 3): 2012(E) ISO16750 (Part 4): 2005 IEC 60068-2-14	Temperature : (-) 40 °C to (+) 125 °C Humidity Range: (30 % to 95 %) RH @ (+) 25 °C to (+) 90 °C
		Mechanical Shock	ISO 16750 (Part 3): 2012(E) IEC 60068-2-27: 2008	Acceleration level upto 50 g for 6 ms and 50 g for 11 m
		Free Fall Test	ISO 16750 (Part 3): 2012 IEC 60068-2-31: (2008-05)	Qualitative (Drop height : 1 m free fall or the height of handling according to agreement Impact surface: Concrete ground)

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