

Chrysler EMC/Electrical Laboratory DC-11224/5 & DC-10615 Self-Assessment

1.0 GENERAL

You are required to provide a Self-Assessment if you are a Chrysler Corporation supplier and you are planning to perform EMC and Electrical Testing using your laboratory to meet DC-11224/5 / DC-10615 requirements.

EMC Requirements:

In addition to the Self-Assessment for DC-11224/5 (EMC), your lab shall also receive the certification of ISO-17025 from a recognized accreditation body with automotive test methods in the ISO-17025 technical scope.

Electrical Requirements:

In addition to the Self-Assessment for DC-10615 (Electrical), your lab shall also be organized and operated according to ISO-17025. Chrysler reserves the right to inspect the lab to confirm that the requirements are met.

Chrysler reserves the right to arrange for follow-up correlation tests and/or on site visits to evaluate the Chrysler test methods not included in the ISO-17025 requirements and to further review and discuss the tests defined in the Chrysler EMC Specification(s).

We encourage you to submit the self-assessment as soon as possible to ensure that we have adequate time to process your request.

The new specifications have many items that are carry over from previous specifications. As a result if the laboratory is previously approved for a particular test not on the list below than the test shall be considered "carry over" and does not to be submitted again at this time.

1. CISPR 25 Radiated Emissions limit lines and ambient.
2. CISPR 25 Conducted Emissions Voltage limit lines and ambient.
3. CISPR 25 Conducted Emissions Current limit lines and ambient.
4. Pulse 1b for transient immunity (scope capture of the waveform).
5. Radar Pulse Modulation (make and model of power meter along with scope/analyzer capture of the waveform).
6. ALSE Immunity Shape and power levels.
7. BCI Immunity Shape and power levels.
8. Pin Conducted Emissions limit lines and ambient.
9. New waveforms in DC-10615 Rev D.

1.1 Supplier Lab Contact Information

Company Name:	Phoenix Test Lab AG			
Company Address:	D-32825 Bomberg, Königswinkel 10 Germ,			
Contact Names	Phone Number	Pager Number / Cell Phone	FAX number	e-mail
Dietmar Pelz	+49(0)5235/9500-12			pelz.dietmar@phoenix-testlab.de
Matthias Wirth	49(0)5235/9500-18			wirth.matthias@phoenix-testlab.de

1.2 CG Contact Information

Approval Team	Phone Number	Pager Number / Cell Phone	FAX number	e-mail
Rob Kado	248 576 6915	248 467 0639	248 576 7045	rk381@dcx.com

1.3 Company Information

Specify the names or types of electronic components provided to Chrysler Corporation.

2.0 EMC TEST REQUIREMENTS (DC-11224/5)

Capability (Y/N)	Test Name	Accredited by (Completed Date)	Accreditation Notes / Additional Requirements	DCG Approval Status Interim / Final (Date)
	(2.1) Pin Conducted RF Emissions (PCE)		Noise floor with DC-11224/5 limits - Photos of test set-up	
Y	(2.2) CISPR 25 Conducted RF Emissions – (Voltage on Supply Lines)		Noise floor with DC-11224 limits - Photos of test set-up	9/2007
Y	(2.3) CISPR 25 Conducted RF Emissions – (Current on All Lines)		Noise floor with DC-11224 limits - Photos of test set-up	9/2007
Y	(2.4) CISPR 25 Radiated RF Emissions		Noise floor with DC-11224 limits - Photos of test set-up	9/2007
Y	(2.6) Conducted Transient Emissions	Not Applicable	Pictures/drawing of setup	10/2005
	(2.7) Direct RF Power Injection Test		Graph of level vs. frequency per DC-11224/5 - Photos of test set-up	
Y	(2.8) Bulk Current Injection		Graph of level vs. frequency per DC-11224 - Photos of test set-up	9/2007
Y	(2.9/10) ALSE with or without a Ground Plane		Graph of level vs. frequency per DC-11224 - Photos of test set-up – Graphical representation of Pulse Modulation along with make/model of Power Meter used	9/2007
Y	(2.11) TEM Cell		Pictures of Test Setup and bulkhead filter information. Graph of level vs. frequency per DC-11224	10/2005
Y	(2.12) Magnetic Field Immunity	Not Applicable	Pictures/drawing of setup and graph of level vs. frequency per DC-11224	10/2005
Y	(2.13) Transient Disturbances Conducted along Supply Lines	Not Applicable	Pictures/drawing of setup	9/2007
Y	(2.14) Transient Disturbances Conducted along I/O Lines	Not Applicable	Pictures/drawing of setup	10/2005
Y	(2.15) Electrostatic Discharge Handling Test		Pictures/drawing of setup	10/2005
Y	(2.16) Electrostatic Discharge Operating Test		Pictures/drawing of setup	10/2005

3.0 ELECTRICAL TEST REQUIREMENTS (DC-10615)

Capability (Y/N)	Test Name	Requirements	DCG Approval Status Interim / Final (Date)
Y	(3.1) Operating Voltage Range	Copy of Temperature Chamber specs and Pictures/Drawing of setup	10/2005
Y	(3.2) IOD	Pictures/drawing of setup	10/2005
Y	(3.3) Voltage Ripple	Graph of level vs. frequency per DC-10615. Pictures/drawing of setup	10/2005
Y	(3.5) Supply Switch Deactivation	Pictures/drawing of setup	10/2005
Y	(3.6) Drop out	Pictures/drawing of setup	10/2005
Y	(3.7) Dips	Pictures/drawing of setup	10/2005
Y	(3.8) Cranking Low Voltage	Pictures/drawing of setup/New waveforms per DC-10615 Rev D	9/2007
Y	(3.9) Supply Voltage Ramp Up	Copy of Temperature Chamber specs and Pictures/Drawing of setup	10/2005
Y	(3.10) Supply Voltage Ramp Down	Pictures/Drawing of setup	10/2005
Y	(3.11) Defective Regulation	Pictures/drawing of setup	10/2005
Y	(3.12) Jump Start	Pictures/drawing of setup	10/2005
Y	(3.13) Load Dump	Copy of pictures/drawing of setup and waveform (waveforms into an open and into a 0.5 Ohm load)	10/2005
Y	(3.14) Reverse Supply Voltage	Pictures/drawing of setup	10/2005
Y	(3.15) Immunity to Short Circuit (Supply Lines)	Pictures/drawing of setup	10/2005
Y	(3.16) Immunity to Short Circuit (I/O Lines)	Pictures/drawing of setup	10/2005
Y	(3.17) Resistance to Overload	Pictures/drawing of setup	10/2005
Y	(3.18) Supply Voltage Offset	Pictures/drawing of setup	10/2005
Y	(3.19) Ground Reference Offset	Pictures/drawing of setup	10/2005
Y	(3.20) Operating and Voltage Stress for Motors	Pictures/drawing of setup	10/2005
Y	(3.21) Stall Test for Motors	Pictures/drawing of setup	10/2005

4.0 COMMENTS FROM SUPPLIER

5.0 COMMENTS FROM Chrysler

Accreditation bodies compliant per ISO 17011 (JAB, A2LA, DATech, ENAC, UKAS, SINAL, and COFRAC) are acceptable.

All tests that are accredited to the scopes of the individual tests will be changed to green and approved by the EMC Committee of Chrysler.

If you have any questions please feel free to contact us.

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