

180580-0005 (Zhaga Cover with Reflector attachment)

REVISION:	ECR/ECN INFORMATION:	TITLE:			SHEET No.
A1	EC No: SSL2016-0054		OUCT SPECIFICATION	-	1 of 8
	DATE: 31-Mar-16	SERIES	(WITH ZHAGA COVE	ER)	1010
DOCUMENT	<u> NUMBER:</u>	CREATED / REVISED BY:	CHECKED BY:	<u>APPROV</u>	/ED BY:
PS	-180580-004	L. ZABJANOVSKI	G. MEYER	G. ME	EYER

FILENAME: PS75431r0.DOC



PRODUCT

1.0 SCOPE

The Molex LED Holders for the NICHIA COB "L" series are electrical connectors and mechanical holder to simplify installation of the COB without solder connections.

2.0 **PRODUCT DESCRIPTION**

2.1 MOLEX LED HOLDER PART NUMBERS

This specification covers the performance requirements and test methods for the following products listed by part numbers:

- * 180580-0004 LED Holder for NICHIA "L" (19mm x 16mm)
- * 180580-0005 LED Holder for NICHIA "L" (19mm x 16mm) with Reflector Attachment

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Dimensions: See sales drawing SD-180580-004 Material: RoHs compliant materials.

2.3 SAFETY AGENCY APPROVALS

UL File Number: E345583

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Refer to the appropriate sales drawings, the website Molex.com and other sections of this specification for the necessary referenced documents and specifications.

3.1 SD-180580-004 NICHIA COB "L" Series Holder Sales Drawing

A1	<u>ECR/ECN INFORMATION:</u> <u>EC No:</u> SSL2016-0054 DATE: 31-Mar-16	MOLEX LED H	OUCT SPECIFICATION OLDERS FOR NICHIA (WITH ZHAGA COVE	A COB "L"	<u>SHEET No.</u> 2 of 8
		<u>CREATED / REVISED BY:</u> L. ZABJANOVSKI	<u>CHECKED BY:</u> G. MEYER	<u>APPROV</u> G. ME	

FILENAME: PS75431r0.DOC



4.0 RATINGS

4.1 VOLTAGE

300 Volts DC maximum

4.2 CURRENT

2.5 Amp maximum continuous current3.0 Amp Maximum peak current (max. 10% duty Cycle)

4.3 TEMPERATURE

Operating:	-40°C to +110°C
Non-operating:	-40°C to +110°C

4.4 DURABILITY

Wire trap insert and release Operation :	5 cycles mate/un-mate
COB Pre-holding Operation :	5 cycles mate/un-mate

4.5 RATED TIME

40,000 hours

5.0 QUALIFICATION

Laboratory condition and sample selection are in accordance with EIA-364-1000.

REVISION:	ECR/ECN INFORMATION:	TITLE:		NT	SHEET No.
A1	EC No: SSL2016-0054	-	OUCT SPECIFICATION		3 of 8
	DATE: 31-Mar-16	SERIES	(WITH ZHAGA COVE	ER)	
DOCUMENT	<u>NUMBER:</u>	CREATED / REVISED BY:	CHECKED BY:	<u>APPROV</u>	/ED BY:
PS	-180580-004	L. ZABJANOVSKI	G. MEYER	G. ME	YER

FILENAME: PS75431r0.DOC



6.0 PERFORMANCE

6.1 ELECTRICAL PERFORMANCE

	ITEM	TEST CONDITIO	N	REQ	UIREMENT	
CON	LOW LEVEL TACT RESISTANCE (EIA-364-23)	With the holder mated, dry circuit 20mV MAX 100mA MAX.		301	mΩ MAX	
۷	VITHSTANDING VOLTAGE (EIA-364-20)	Measured between ins wire and heat sink Apply 1500V AC for 1n and 1.0mA leakage cu	k. ninute,		ping dischar lover occurr	
	INSULATION RESISTANCE (EIA-364-21)	Measures between ins wire and heat sink Apply 500V DC for 1m	κ.	500	DMΩ MIN	
REVISION:	ECR/ECN INFORMATION:	TITLE:				SHEET No
	EC No: SSL2016-0054	MOLEX LED HC				
A1	<u>DATE:</u> 31-Mar-16			ZHAGA COVI		4 of 8
DOCUMENT	NUMBER:	CREATED / REVISED BY:		ECKED BY:	APPROV	ED BY:

L. ZABJANOVSKI

G. MEYER



6.2 MECHANICAL PERFORMANCE

	ITEM	TEST CONDITION	REQU	IREMENT
	E TRAP COVER ENTION FORCE	Apply static load until co separated from holder		N MIN
WIF	RE RETENTION FORCE	Apply static load until wi separates from holder		N MIN
[DROP TEST	Drop 3 times (3 direction from height of 1 meter onto concrete o equivalent surface	No damage	e which effects r function
			1	
<u>VISION:</u>	ECR/ECN INFORMATION:			<u>SHEET N</u>
Δ1	EC No: SSL2016-0054	MOLEX LED HOLI	T SPECIFICATION DERS FOR NICHIA	COB "L" 5 of 8
	EC No: SSL2016-0054 DATE: 31-Mar-16	MOLEX LED HOLI		J U U



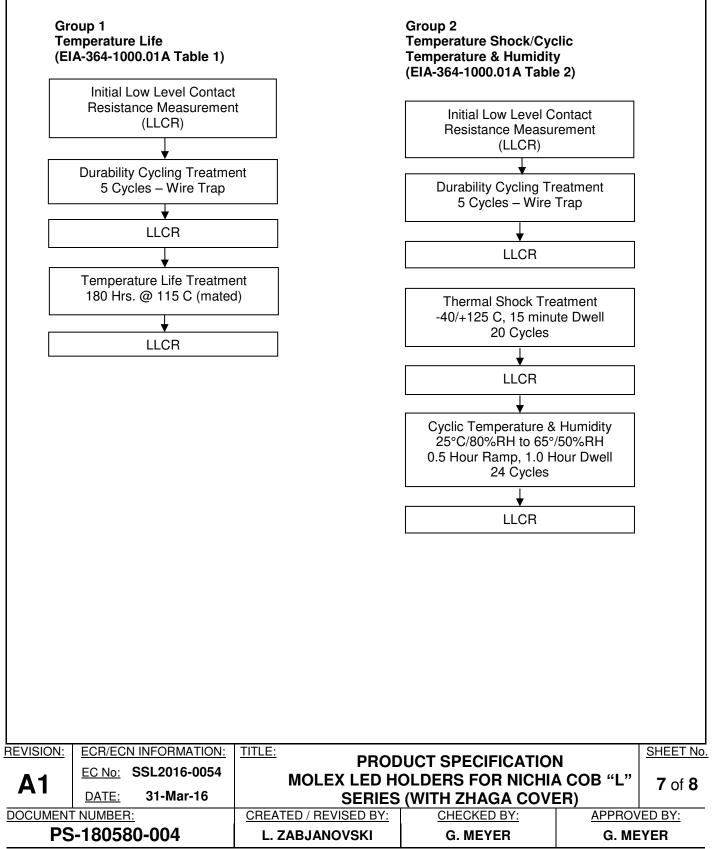
6.3 ENVIRONMENTAL PERFORMANCE

HUMIDITY (EIA-364-32 & 31)Expose to Thermal Cycle 25°C/80%RH to 65°C/50%RH. 0.5 Hour Ramp, 1.0 Hour Dwell, 24 Cyclesper InterfaceVIBRATION (EIA-364-28)Fasten Holder to Heatsink with LED. Insert Wires in Wire Traps. Expose to Random 3.1G Vibration, 15 Minutes per Axis (X, Y, & Z)Max. 20 mohm Contact Resistance Change per Interface		TEST CONDITION	REQUIREMENT
TEMPERATURE SHOCK/CYCLIC TEMPERATURE & HUMIDITY (EIA-364-32 & 31)with LED. Insert Wires in Wire Traps. Expose to Thermal Cycle 25°C/80%RH to 65°C/50%RH. 0.5 Hour Ramp, 1.0 Hour Dwell, 24 CyclesMax. 20 mohm Contact Resistance Change per InterfaceVIBRATION (EIA-364-28)Fasten Holder to Heatsink with LED. Insert Wires in Wire Traps. Expose to Random 3.1G Vibration, 15 Minutes per Axis (X, Y, & Z)Max. 20 mohm Contact Resistance Change per InterfaceHERMAL CYCLING (EIA-364-1000)Fasten Holder to Heatsink with LED. Insert Wires in Wire Traps. Expose to +15/+85°C, 30Max. 20 mohm Contact Resistance Change per Interface	LIFE	with LED. Insert Wires in Wire Traps.	Resistance Change
VIBRATION (EIA-364-28)with LED. Insert Wires in Wire Traps. Expose to Random 3.1G 	SHOCK/CYCLIC TEMPERATURE &	with LED. Insert Wires in Wire Traps. Expose to -40/125°C, 15 Minute Dwell, 20 Cycles Expose to Thermal Cycle 25°C/80%RH to 65°C/50%RH. 0.5 Hour Ramp, 1.0 Hour	Resistance Change
HERMAL CYCLING (EIA-364-1000)with LED. Insert Wires in Wire Traps. Expose to +15/+85°C, 30Max. 20 mohm Contact Resistance Change per Interface	-	with LED. Insert Wires in Wire Traps. Expose to Random 3.1G Vibration, 15 Minutes per	Resistance Change
	THERMAL CYCLING (EIA-364-1000)	with LED. Insert Wires in Wire Traps. Expose to +15/+85°C, 30	Resistance Change
	HERMAL CYCLING	Axis (X, Y, & Z) Fasten Holder to Heatsink with LED. Insert Wires in Wire Traps. Expose to +15/+85°C, 30	Max. 20 mohm Contact Resistance Change
	FC No: SSL2016-0054	PRODUCT	
MOLEX LED HOLDERS FOR NICHIA COB "L" 6	<u>EC No:</u> SSL2016-0054	MOLEX LED HOLDE	RS FOR NICHIA COB "L" 6
DATE:31-Mar-16MOLEX LED HOLDERS FOR NICHIA COB "L"6	<u>EC No:</u> SSL2016-0054	MOLEX LED HOLDE	SPECIFICATION RS FOR NICHIA COB "L" 6 H ZHAGA COVER)



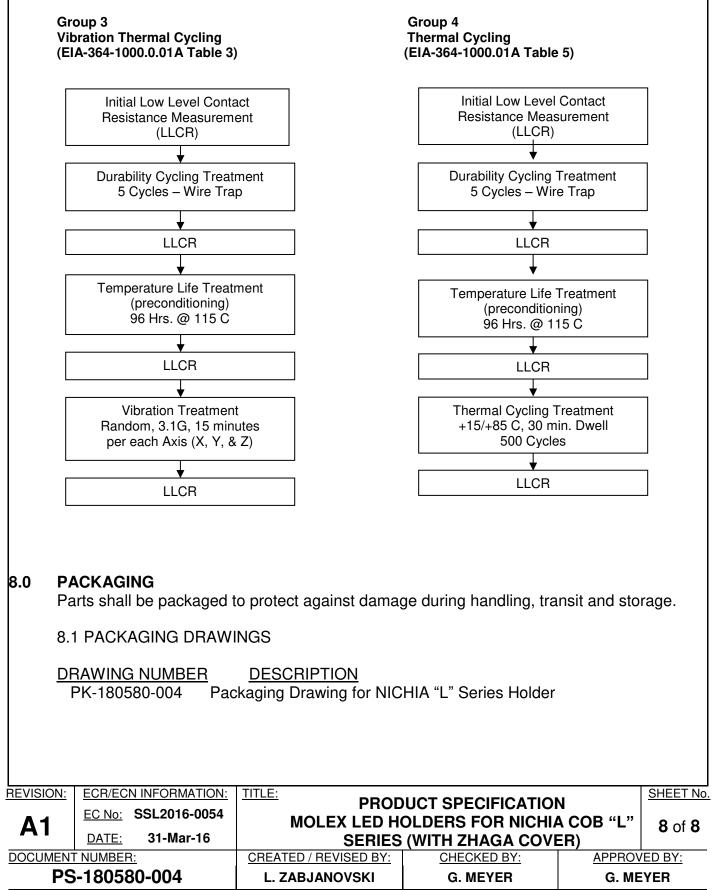
7.0 TEST SEQUENCE

7.1 Reliability Test Sequences:









FILENAME: PS75431r0.DOC