## **molex**<sup>®</sup> **PRODUCT SPECIFICATION**

### MOLEX SLIMRAY HOLDERS FOR LUMILEDS CHIP ON BOARD (COB) LEDS

#### 1.0 SCOPE

This Product Specification covers Molex SlimRay COB holders for LUMILEDS 1202 to 1212 series COB. These holders are electrical connectors and mechanical holders to simplify installation of COB LEDs, without solder connections. They also incorporate prewired leads.

#### 2.0 PRODUCT DESCRIPTION

#### 2.1 PRODUCT NAME AND SERIES NUMBER(S)

This specification covers the performance requirements and test methods for the following products:

Part Number	Description
180555-103*	COB HOLDER ASSEMBLY 16MM X 19MM FOR LUMILEDS
180555-104*	COB HOLDER ASSEMBLY 20MM X 24MM FOR LUMILEDS
180555-105*	COB HOLDER ASSEMBLY 28MM X 28MM FOR LUMILEDS

#### 2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Dimensions: See sales drawing SD-180555-131, SD-180555-141, and SD-180555-151. Material: RoHS compliant materials

#### 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.

Document NumberDescriptionSD-180555-131COB HOLDER ASSEMBLY 16MM X 19MM FOR LUMILEDSSD-180555-141COB HOLDER ASSEMBLY 20MM X 24MM FOR LUMILEDSSD-180555-151COB HOLDER ASSEMBLY 28MM X 28MM FOR LUMILEDSTS-180555-002TEST SUMMARY MOLEX SLIMRAY HOLDERS FORLUMILEDS 1202 TO 1212 SERIES COB

REVISION:	ECR/ECN INFORMATION:	TITLE: PRODU	JCT SPECIFICATI	ON	SHEET No.
A1	<u>EC No:</u> SSL2015-0110	MOLEX SLIM	RAY HOLDERS F	OR	<b>1</b> of <b>4</b>
	DATE: 12 JUNE 2015	5 LUMILEDS 1202 TO 1212 SERIES COB			1014
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
PS-180555-002		M. COLE	N. VANSTIPHOUT	G. ME	EYER
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.2).DOC					

## **molex**<sup>®</sup> **PRODUCT SPECIFICATION**

#### 4.0 RATINGS

#### 4.1 VOLTAGE

300 Volts DC maximum

#### 4.2 CURRENT

3.0 Amp Maximum Peak Current

#### 4.3 TEMPERATURE

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

#### 4.4 DURABILITY

5 cycles mate/un-mate (wire trap insert and release operation)

#### 4.5 RATED TIME

50,000 hours

#### **5.0 PERFORMANCE**

#### 5.1 REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Temperature Life Treatment as per EIA-364-17 Method A (without electrical load)	Temperature125°C Duration 1000Hrs	<b>20</b> milliohms MAXIMUM (change from initial) & Visual: No Damage
2	Device Driven Thermal Cycling	On / Off Cycling Tc 40°C to 85°C 5500 Cycles	<b>20</b> milliohms MAXIMUM (change from initial) & Visual: No Damage

REVISION:	ECR/ECN INFORMATION:	TITLE: PROD	UCT SPECIFICATI	ON	SHEET No.	
A1	EC No: SSL2015-0110		MOLEX SLIMRAY HOLDERS FOR		<b>2</b> of <b>4</b>	
	DATE: 12 JUNE 2015	LUMILEDS 1202 TO 1212 SERIES COB				
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:	
PS-180555-002		M. COLE N. VANSTIPHOUT G. MEYER				
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.2).DOC						

# **molex**<sup>®</sup> **PRODUCT SPECIFICATION**

### 5.1 REQUIREMENTS (continued)

ITEM	DESCRIPTION	TEST CONE	DITION	RE		-
3	Thermal Shock as per EIA-364-32 Cyclic Temperature and Humidity as per EIA-364-31	Thermal Sr -40 to +10 15 Minute E 50 Cycle Cyclic Temperature 25C/80%RH to 65 0.5 Hour R 1.0 Hour D 24 Cycle	5 C Dwell es and Humidity 5C/50%RH amp well	(cha	liohms MAXIN Inge from initia & Ial: No Dama	al)
Vibration as per EIA-364-28, V		Pre Treatment at 1250 28, Vibration: 15 Minutes 3 Directions Random vib to 500 Hz Power Sp 0.002 g2/ Overall 3.10	3 Perpendicular pration profile 20 ectral Density Hz	licular file 20 milliohms MAXIMUM (change from initial)		
5	Temperature Life Preconditioning as per El. 364-17 Method A Flowing Mixed Gas as pe EIA-364-65 Class IIA Thermal disturbance as p EIA-364-1000.1	Flowing Mixe Class II, 70% Relative H 30 C Tempe 10 ppb Cl2, 200 ppb H2S, 100 ppl 14 day exposure for 1	lectrical load) 0115C d Gas: A Humidity rature NO2, 10 ppb b SO2 0 year field life ) EIA-364-1000.1	(cha	liohms MAXIN Inge from initia & Ial: No Dama	al)
6	Assembly Test [Plug / Unplug 10X]	with CoE	Assemble and Disassemble holder with CoB. Measure LLCR		liohms MAXIN ange from initia & al: No Dama	al)
<u>ISION:</u>	ECR/ECN INFORMATION: EC No: SSL2015-0110 DATE: 12 JUNE 2015	TITLE: PRODU MOLEX SLIM LUMILEDS 12	_	ERS F	OR	<u>SHEET No</u> <b>3</b> of <b>4</b>
	<u>NUMBER:</u> -180555-002	CREATED / REVISED BY: M. COLE	CHECKED N. VANSTIPI	<u>BY:</u>	APPROV G. ME	

r	nolex®	PRODUCT SPE	CIFICATION
5.1 RE	EQUIREMENTS (continu	ied)	
ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT

7	Wire Retention Force	Axial pullout force on the terminal in the housing at a rate of $25 \pm 6$ mm (1 $\pm 1/4$ inch) per minute.	58 N (13 lbf) MINIMUM retention force
---	-------------------------	--	--

#### 6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

6.1 PACKAGING DRAWINGS

DRAWING NUMBER DESCRIPTIONPK-180559-013PACKAGING ASSEMBLYPK-180559-014PACKAGING ASSEMBLY

REVISION:	ECR/ECN INFORMATION:	TITLE: PRODU	JCT SPECIFICATI	ON	SHEET No.		
A1	EC No: SSL2015-0110	MOLEX SLIN	MOLEX SLIMRAY HOLDERS FOR		<b>4</b> of <b>4</b>		
AI	DATE: 12 JUNE 2015	LUMILEDS 1	LUMILEDS 1202 TO 1212 SERIES COB				
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:		
PS-180555-002		M. COLE	N. VANSTIPHOUT	G. ME	EYER		
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.2).DOC							