COB LED HOLDER APPLICATION SPECIFICATION

1.0 SCOPE

This specification outlines a standard installation and re-work of a Molex LED array holder. These products have two contact points where wires are inserted into releasable wire traps to power the array. Wires can be released for rework or replacement. Additional products such as a directional optic or clear protective cover can be applied during or post installation. This file outlines a re-work or removal of an LED array using the Molex releasable wire-trap.

2.0 PRODUCT DESCRIPTION

This connector consists of a housing with two releasable wire-traps and two wire trap caps or a cover to secure the terminals. Each wire trap can accept 18, 20 and 22 gauge tinned solid core or tinned stranded wire.

[N	laterial	Material Descri	ption			
	180	1801500000 ES LED H		DER W/O COVER			
	1801500001		ES LED HOLDER WITH COVER				
	1801900000		HOLDER CITIZEN CL-L340 WITHOUT LENS				
	180	1900001	HOLDER CIT	IZEN CL-L340 WITH LEN	S		
	180	2200000	CREE CXA20	LED HOLDER W/O COV	'ER W/O RIBS		
	1802200001		CREE CXA20 LED HOLDER W COVER W/O RIB				
	1802600000		HOLDER CITIZEN CL-L330				
	1803300002		COB LED HOLDER FOR 24 MM X 20 MM RECTANGLE - NYLON				
	1803300003		COB LED HOLDER FOR 24 MM X 20 MM RECTANGLE ZHAGA COVER				
	1803300102		COB LED HOLDER FOR 24 MM X 20 MM RECTANGLE - PBT				
	180	3900002	COB LED HO	LDER FOR 15 MM X 12 MM RECTANGLE - NYLON			
	180	3900102	COB LED HO	LDER FOR 15 MM X 12 MM RECTANGLE - PBT			
	1805600001		CREE CXA15 WITHOUT PREHOLD - PBT				
	1805600002		CREE CXA15 WITH PREHOLD - PBT				
18		5600101	CREE CXA15 WITHOUT PREHOLD - NYLON				
18		5600102	CREE CXA15 WITH PREHOLD - NYLON				
180		5800001	COB LED HOLDER FOR 19 MM X 16 MM RECTANGLE - NYLON				
1805		5800004	COB LED HO	DLDER FOR 19 MM X 16 M	MM RECTANGLE W/ZH	AGA COVER	2
1805800 1805800		5800005	COB LED HOLDER FOR 19 MM X 16 MM RECTANGLE W/ZHAGA COVER				
			LENS ATTAC				
			COB LED HOLDER FOR 19 MM X 16 MM RECTANGLE -PBT				
		7200001					
	1807200002 CREE CXA25			5 WITH PREHOLD			
REVISION:		ECR/ECN INFORMATION:		TITLE:			SHEET No.
		EC No: SSL2015-0083		APPLICATION SPECIFICATION FOR			
B2		DATE: 17 FEB 2015		LED ARRAY HOLDERS			1 of 7
				CREATED / REVISED BY:	CHECKED BY:	APPROV	
AS-180328-001			8-001	M. COLE	Y.ENOMOTO	<u>G. ME</u>	
AS-180328-001 MI. COLL T.LNOMOTO G							
					I LIVIF LAT L FILENAME.	ALLEATION_SPEC	Juzz_MJ(V.1).DUC

2.1 PRODUCT NAME AND PART NUMBER

3.0 REFERENCE DOCUMENTS

Refer to the appropriate file for part numbers and dimensions (SD-180***-000) Refer to PS-180***-000 for connector product specification

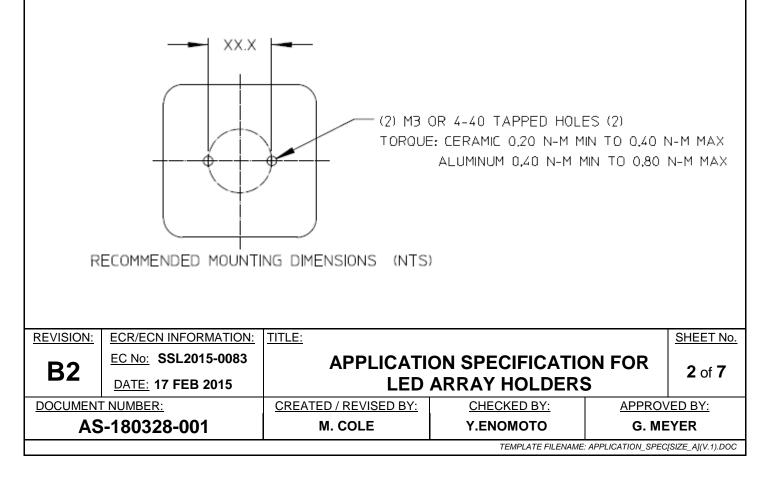
4.0 PROCEDURE

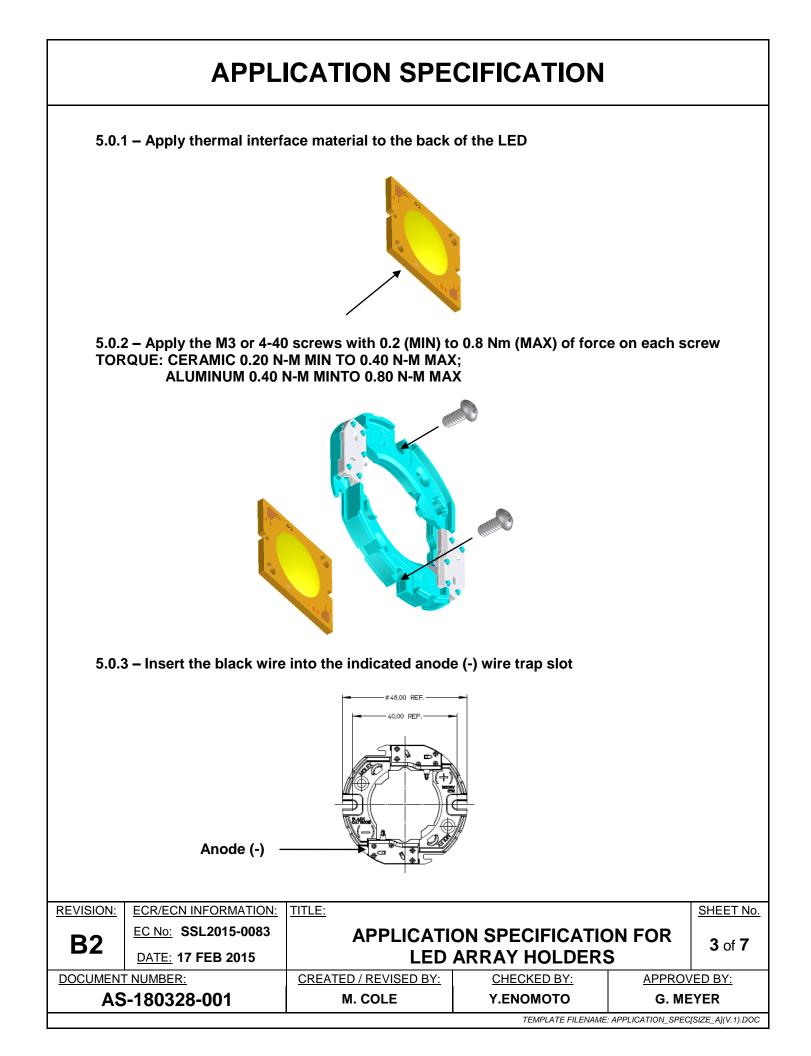
4.1 GENERAL REQUIREMENTS

- 4.1.1 Materials needed for installation
- 1) Machine Screws (M3 or 4-40 Screws)
- 2) Torque Wrench (0.2 Nm Min to 0.8 Nm Max Torque)
- 3) Thermal interface material (SIL Pad, phase change pad, or Thermal Grease)
- 4) Power Supply to power LED Array
- 5) Wire Cutter/Stripper
- 6) Straight Pin (Only needed for removal or replacement)

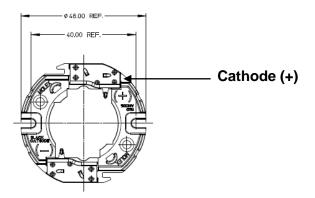
5.0 ASSEMBLY INSTRUCTIONS

5.0.0 - Tap (2) M3 or 4-40 holes in the Heat sink or fixture for the holder screws. See applicable sales drawing for proper hole spacing.





5.0.4 - Insert the red wire into the indicate cathode (+) wire trap slot

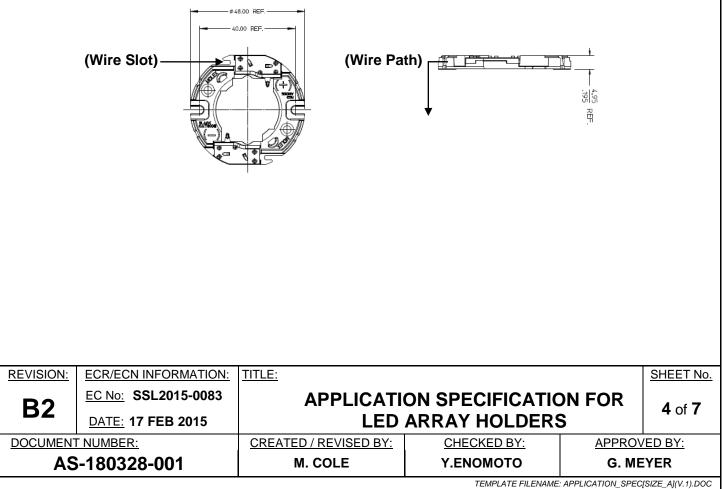


Note: wires can be inserted at either end of the Cathode (+) wire trap

Note: wires can be inserted at either end of the Anode (-) wire trap and should maintain 10mm (+2/-0 mm) strip length

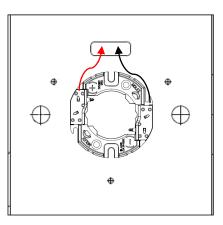
5.0.5 - Bend wires through the slots in the holder (Only available on select holder designs)

Note: This step is only required if the wire path holes are directly below the wire slot on the holder



5.0.6 – Thread wires through the two original wire path holes in the heat sink/fixture

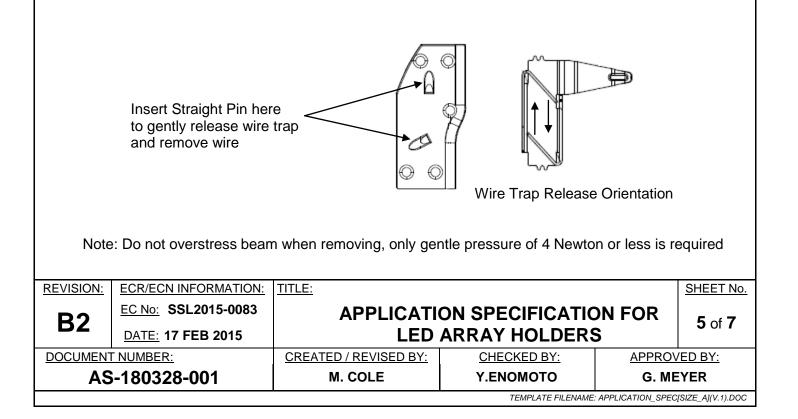
Note: Heat sink/Fixture may need to be pre-drilled for wire path



5.0.7 – Pull wires through holes ensuring that the holder is placed and fits flush on the top of the heat sink or with the mounting area on the inside of the fixture

Note: wire strain relief inside fixture recommended prior to attaching power source

5.0.8 – Removal of wire from wire trap



6.0 THERMAL INTERFACE MATERIAL (TIM) GUIDELINES

6.0.1 Molex holders are designed to be compatible with either thermal grease or TIM pads (typically 0.25mm thick). Note: Customer is responsible for choosing appropriate TIM material or thermal grease.

