imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SPECIFICATION

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<LAM-SQ32B>

<LAM-RT32B>

LAM-32LED (Lens Attached Module)						
Model Name	LAM-SC	LAM-SQ32B, LAM-SQ32B				
Туре	24V, 385mA					
		LAM-SQ32B	LAM-RT32B			
	3000K	SI-B8V095260WW	SI-B8V095280WW			
Parts No.	3500K	SI-B8U095260WW	SI-B8U095280WW			
Faits NO.	4000K	SI-B8T095260WW	SI-B8T095280WW			
	5000K	SI-B8R095260WW	SI-B8R095280WW			
	6500K	SI-B8P095260WW	SI-B8P095280WW			

SAMSUNG ELECTRONICS CO,.LTD. SAN #24 NONGSEO-DONG, GIHEUNG-GU, YONGIN-SI, GYEONGGI-DO, 446-711, KOREA



LED Module

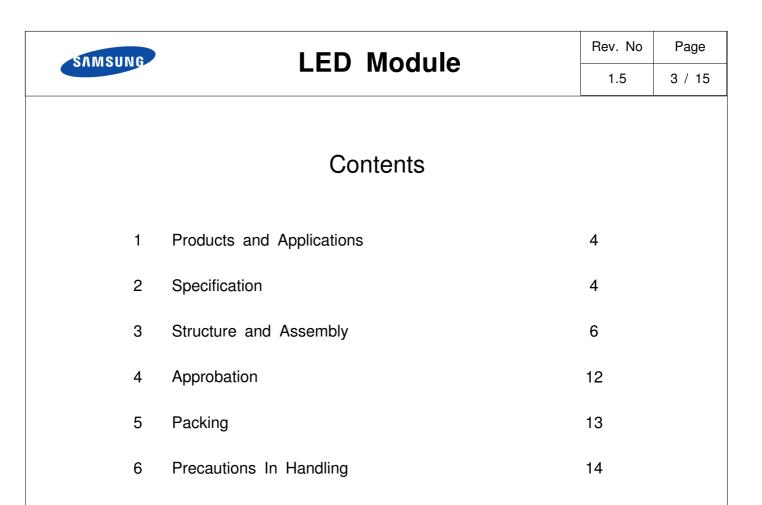
Revision History

Rev.No	Data	Page	Revision	Remark
1.0	April 2014		The first preliminary specification is	
1.0	April, 2014	-	established. Total 15 pages	-
			The final specification is released.	
1.5	April, 2014	-	Total 15 pages.	

※ Code Information

- SI-B8W09XYZ0WW
- W : Color Temperature (T : 4000K, R : 5000K, P : 6500K)
- X : Model type (1,3,5 ... : C type, 2,4,6 : D type)

YZ : Model type (26 : 2x2 model, 28 : 1x4 model)





1. Products and Application

This specification defines general specification and performance for Lens Attached LED module. Samsung LAM products target to replace conventional fluorescent lamps as T5, T8 and so on with LED solutions. Due to transferring LED, new luminaire transferred to LED can take more energy saving and longer life-time.

In special, Samsung has the competitiveness in middle-power solutions. This module uses LM561B. Middle power solutions provide more homogeneous and higher efficient lights.

Moreover, LAM solution that is integrated advanced optical technology designed by Samsung provides you higher uniformity. It's possible to design slimmer luminaire with clear appearance.

2. Specification

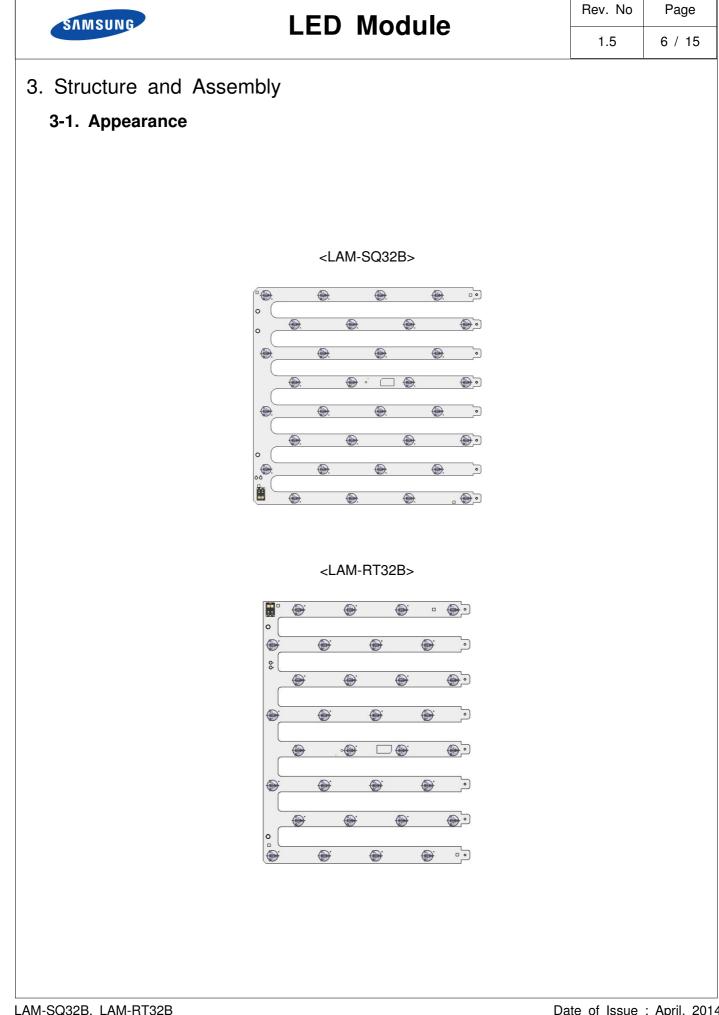
No.	ltem	Specifications	Unit	Remark
2-1	Dimension	SQ : 250 x 259 x 6.8 RT : 216 x 273 x 6.8	mm	Tolerance:±0.5mm
2-2	Weight	SQ : 98 g RT : 90 g	g	Tolerance: ±5g
2-3	Rated lifetime	50,000 Hr	hour	L70B50 @Tc = 80℃
2-4	Ingress Protection	N/A	-	-
2-5	Operating Temperature	Tc = - 20 ~ 50	Ĵ	-
2-6	Storage Temperatue	Ta = - 40 ~ 80	Ĵ	-

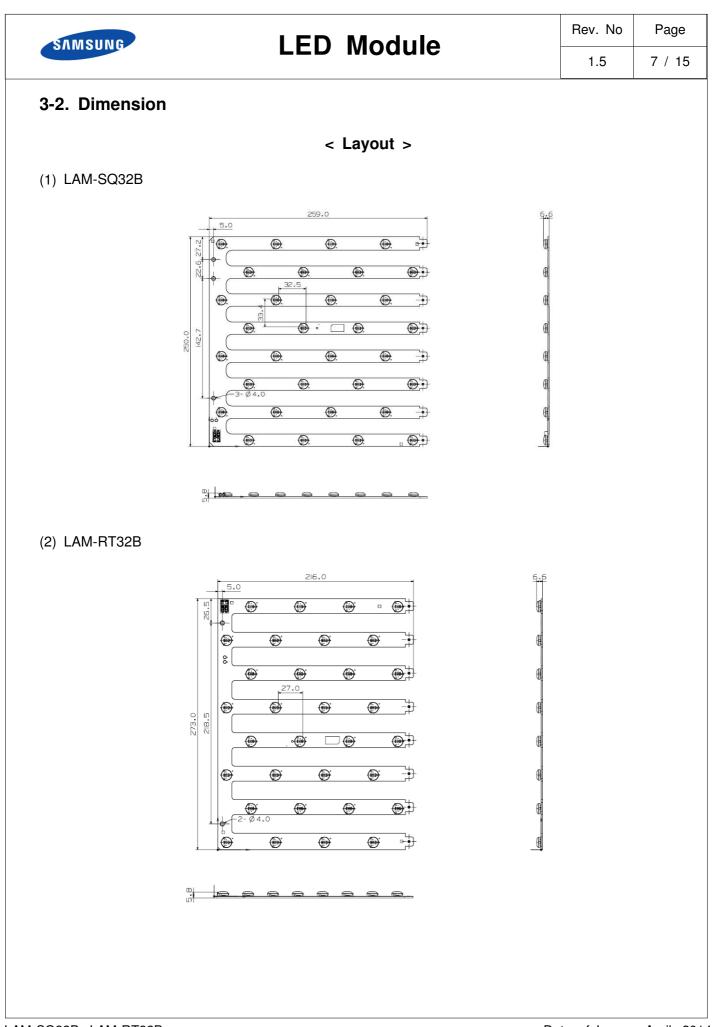
SAMSUNG

LED Module

No.	ltem		Sp	pecifica	tions		Unit	Remark				
INU.	liem	Sym.	Model	Min.	Nom.	Max.	Unit	nemark				
			3000K	1010	1130	1260						
			3500K	1030	1150	1280		@205mA 041/				
2-7	Luminous flux	Φν	4000K	1060	1200	1330	lm	@385mA, 24V Tp = 35℃				
			5000K	1100	1240	1380						
			6500K	1060	1200	1330						
			3000K		123							
			3500K		126							
2-8	Efficiency	Efficiency	Efficiency	Efficiency	Efficiency LPV	LPW	4000K	-	130	-	lm/W	@385mA, 24V Tp = 35℃
							5000K	-	135	-		
			6500K	-	130	-						
2-9	Color consistency	_	4000K	-	3	-	step	MacAdam				
2-5	Color consistency		5/6500K	-	4	-	Siep	@ initial time				
2-10	Color Rendering Index	CRI	-	80	-	-	Ra	-				
			4000K	3,710	3,985	4,260		@205mA 041/				
2-11	CCT	-	5000K	4,745	5,028	5,311	К	@385mA, 24V Tp = 35℃				
			6500K	6,020	6,530	7,040						
2-12	Operating Current	lop	-	-	385	-	mA	-				
2-13	Operating Voltage	Vdc	-	22.0	24.0	26.0	v	@385mA, Tp = 35℃				
2-14	Power Consumption	-	-	-	9.2	-	w	@385mA, Tp = 35℃				

% Measurement tolerance of luminous flux becomes \pm 7% in the value, measurement tolerance of Vf becomes \pm 0.3V in the value.







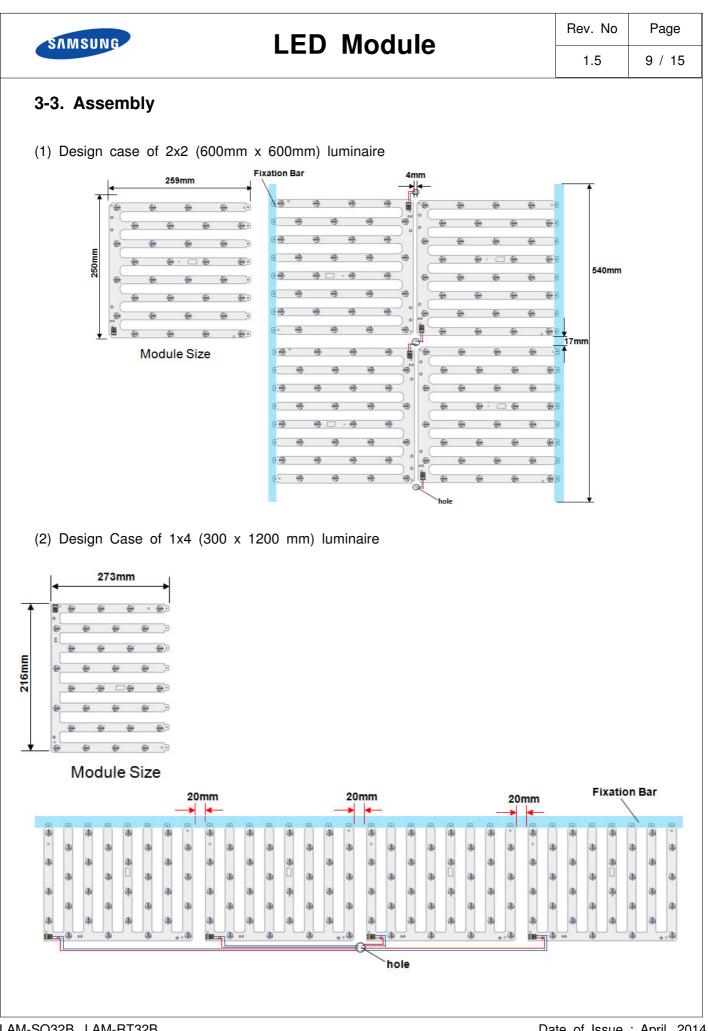
LED Module

LAM-SQ32B

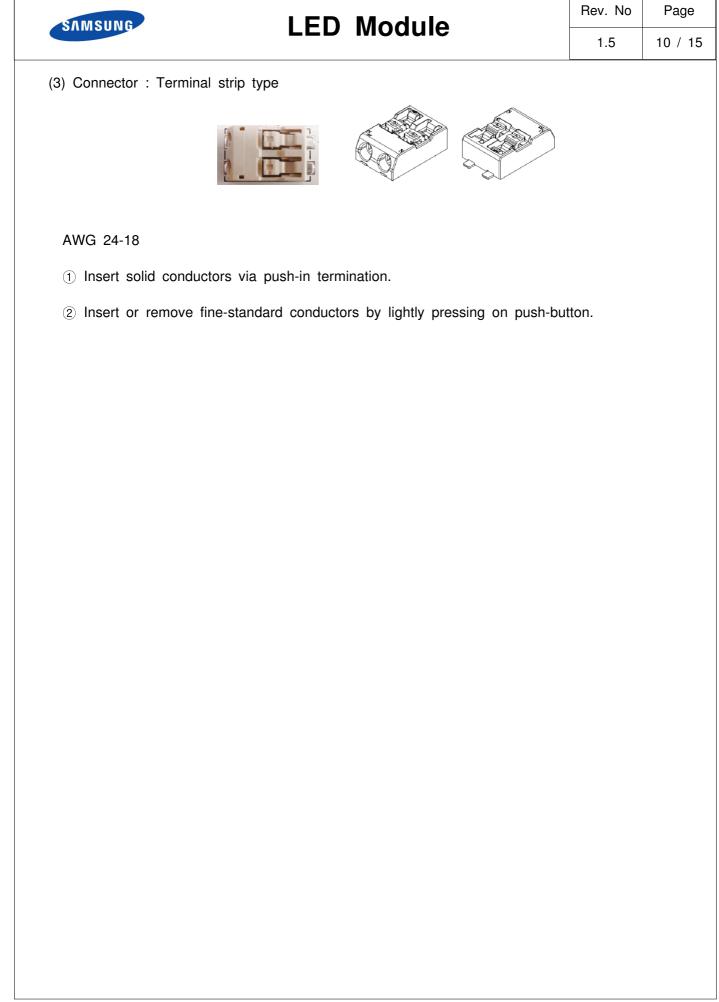
	Item	Specifications
L	Length of PCB	259.0 ± 0.5 mm
W	Width of PCB	250.0 ± 0.5 mm
H1	Thickness of PCB	1.6 ± 0.1 mm
H2	Height of PCBA	6.8 ± 0.2 mm

LAM-RT32B

	Item	Specifications
L	Length of PCB	273.0 ± 0.5 mm
W	Width of PCB	216.0 ± 0.5 mm
H1	Thickness of PCB	1.6 ± 0.1 mm
H2	Height of PCBA	6.8 ± 0.2 mm



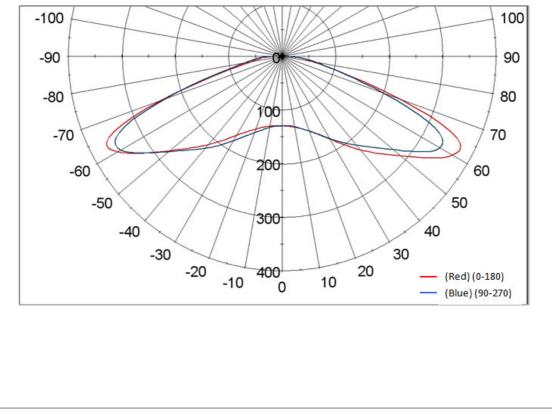
LAM-SQ32B, LAM-RT32B



SAMSUNG			D Module		Page
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3-4. Structure	•				
No.		Item	Specifications	5	
	3-1 IED		LM561B : Middle Power LED 32 ea		
Module			Material : Copper, Solder mask and Epoxy		
Assembly	3-3	Lens PC (Poly Carbonate)			
	3-4	Connector 2-pin Poke-in type			

3-5. Light Distribution

(1) Polar Intensity Diagram : Beam Angle 145 ± 5 [°]



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	(3) Tc : Max temperature to or - Tc = 65 ℃	$ \begin{array}{c} $			
т. /	Approbation Item	Compliant to	Result / Rem	ark	
	General	Eye safety : IEC62471	LM561B LEI	 ጋ	
_					
	Hazardous Substance &	RoHS	Declared		
	Materials Reach Declared				
Certification UL/cUL E344519					



5. Packing

5-1 Dimension & Module Q'ty

(1) LAM-SQ32

Item	1 box	1 pallet
Dimension	365 x 332 x 267 mm	1200 x 800 x 145 mm
Q'ty	60 modules	1800 modules 30 boxes

(2) LAM-RT32

Item	1 box	1 pallet
Dimension	365 x 332 x 267 mm	1200 x 800 x 145 mm
Q'ty	60 modules	1800 modules 30 boxes



6. Precautions In Handling

1) LED Lighting for white light are devices which are materialized by combining white LEDs. The color of white light can differ a little unusually to diffuser plate(sign-board panel).

2) Handling

- Don't drop the unit and don't give the unit any shocks.
- Don't storage the Module in a dusty place or room.
- Don't take the unit to pieces.

3) Cleaning

- This LED Module should not be used in any type of fluid such as oil, organic solvent, etc.
- It is recommended that IPA(Isopropyl Alcohol) be used as a solvent for cleaning the LED Module.
- When using other solvents, it should be confirmed beforehand whether the solvents will dissolve the package and the resin or not. Freon solvents should not be used to clean the LEDs because of worldwide regulations. Do not clean the LED Module by the ultrasonic.
- Before cleaning, a pre-test should be done to confirm whether any damage to the LED Lighting will occur.

4) Static Electricity

- Static electricity or surge voltage damages the LED Lighting.
- 5) Discoloration
 - VOCs (volatile organic compounds) may be occurred by adhesives, flux, hardener or organic additives which is used in luminaires (fixture) and LED silicone bags are permeable to it. It may lead a discoloration when LED expose to heat or light.
 - This phenomenon can give a significant loss of light emitted(output) from the luminaires(fixtures).
 - In order to prevent these problems, we recommend you to know the physical properties for the materials used in luminaires, it requires to select carefully.
- 6) Risk of Sulfurization (or Tarnishing)
 - The lead frame from Samsung Electronics is a plated package and it may change to black (or dark colored) when it is exposed to Ag (a), Sulfur (S), Cchlorine (Cl) or other halogen compound. It requires attention.
 - Sulfide (Sulfurization) of the lead frame may cause a change of degradation intensity, chromaticity coordinates and it may cause open circuit in extreme cases. It requires attention.
 - Sulfide (Sulfurization) of the lead frame may cause of storage and using with oxidizing substances together. Therefore, LED is not recommend to use and store with the below list.
 Rubber, Plain paper, lead solder cream etc.

