Cree[®] Screen Master[®] 5-mm Oval LED C5SMF-RJF/GJF/BJF C5SMF-RJE/GJE/BJE C5SME-RJF/RJE

PRODUCT DESCRIPTION

The oval LED is specifically designed for variable-message signs and passenger-information signs.The ovalshaped radiation pattern and high luminous intensity ensure that these devices are excellent for wide-fieldof -view outdoor applications where a wide viewing angle and readability in sunlight are essential.

These lamps are made with an advanced optical-grade epoxy that offers superior high-temperature and highmoisture-resistance performance in outdoor signal and sign applications. The encapsulation resin contains anti-UV material in order to reduce the effects of long-term exposure to direct sunlight.

FEATURES

- Size (mm): 5
- Color and Typical Dominant Wavelength: Red (621nm) Green(527nm) Blue(470nm)
- Luminous Intensity (mcd)
 C5SMF-RJF/RJE: (1100-4180)
 C5SMF-GJF/GJE: (2130-8200)
 C5SMF-BJF/BJE: (550-2130)
 C5SME-RJF/RJE: (770-2130)
- Lead Free
- RoHS Compliant



APPLICATIONS

- Electronic Signs & Signals (ESS)
- Full Color video screen
- Motorway Signs
- Variable Message Sign (VMS)
- Advertising signs
- Petrol Signs

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^{\circ}C$)

Items	Symbol	Absolute Max	kimum Rating	Unit
		Red	Blue and Green	
Forward Current	I _F	50 Note1	35	mA
Peak Forward Current Note2	I _{FP}	200	100	mA
Reverse Voltage	V _R	5	5	V
Power Dissipation	P _D	130	140	mW
Operation Temperature	T _{opr}	-40 ~	y +95	°C
Storage Temperature	T _{stg}	-40 ~	+100	°C
Lead Soldering Temperature	T _{sol}	(3	Max. 260°C for 3 so mm from the base of t	
Electrostatic Discharge Classification (MIL-STD-883E)	ESD	Class 2		

Note:

1. For long term performance the drive currents between 10mA and 30mA are recommended. Please contact CREE sales representative for more information on recommended drive conditions.

2. Pulse width ≤ 0.1 msec, duty $\leq 1/10$.

TYPICAL ELECTRICAL & OPTICAL CHARACTERISTICS (T_A = 25^{\circ}C)

Characteristics	Color	Symbol	Condition	Unit	Minimum	Typical	Maximum
Fammend Malta as	Red	V _F	$I_{F} = 20 \text{ mA}$	V		2.1	2.6
Forward Voltage	Blue/Green	V _F	$I_F = 20 \text{ mA}$	V		3.4	4.0
December 1	Red	I _R	$V_{R} = 5 V$	μA			100
Reverse Current	Blue/Green	I _R	$V_{R} = 5 V$	μA			100
	Red	$\lambda_{_{D}}$	$I_{F} = 20 \text{ mA}$	nm	619	621	624
Dominant Wavelength	Green	λ_{D}	$I_{F} = 20 \text{ mA}$	nm	520	527	535
	Blue	λ_{D}	$I_{F} = 20 \text{ mA}$	nm	460	470	475
	C5SMF - Red	Iv	$I_{F} = 20 \text{ mA}$	mcd	1100	2200	
Luminous Intensity	C5SME - Red	Iv	$I_F = 20 \text{ mA}$	mcd	770	1100	
Lummous intensity	Green	Iv	$I_{F} = 20 \text{ mA}$	mcd	2130	4400	
	Blue	Iv	I _F = 20 mA	mcd	550	1100	

Note: Continuous reverse voltage can cause LED damage.

INTENSITY BIN LIMIT (I_F = 20 mA)

Red: C5	Red: C5SMF									
Bin Code	Sub- bin	Min. (mcd)	Max. (mcd)							
	T1	1100	1205							
то	T2	1205	1310							
10	Т3	1310	1415							
	T4	1415	1520							
	U1	1520	1672							
UO	U2	1672	1824							
00	U3	1824	1976							
	U4	1976	2130							
	V1	2130	2347							
VO	V2	2347	2564							
VU	V3	2564	2781							
	V4	2781	3000							
	W1	3000	3295							
wo	W2	3295	3590							
000	W3	3590	3885							
	W4	3885	4180							

Green:	Green: C5SMF									
Bin Code	Sub- bin	Min. (mcd)	Max. (mcd)							
	V1	2130	2347							
VO	V2	2347	2564							
VU	V3	2564	2781							
	V4	2781	3000							
	W1	3000	3295							
wo	W2	3295	3590							
VVO	W3	3590	3885							
	W4	3885	4180							
	X1	4180	4600							
XO	X2	4600	5020							
XU	Х3	5020	5440							
	X4	5440	5860							
	Y1	5860	6445							
YO	Y2	6445	7030							
10	Y3	7030	7615							
	Y4	7615	8200							

Blue: C	Blue: C5SMF									
Bin Code	Sub- bin	Min. (mcd)	Max. (mcd)							
	R1	550	605							
RO	R2	605	660							
KU	R3	660	715							
	R4	715	770							
	S1	770	852							
S0	S2	852	934							
50	S3	934	1017							
	S4	1017	1100							
	T1	1100	1205							
то	T2	1205	1310							
10	Т3	1310	1415							
	T4	1415	1520							
	U1	1520	1672							
UO	U2	1672	1824							
00	U3	1824	1976							
	U4	1976	2130							

Red: C5SME

Bin Code	Sub- bin	Min. (mcd)	Max. (mcd)
	S1	770	852
S0	S2	852	934
50	S3	934	1017
	S4	1017	1100
	T1	1100	1205
то	T2	1205	1310
10	Т3	1310	1415
	T4	1415	1520
	U1	1520	1672
UO	U2	1672	1824
00	U3	1824	1976
	U4	1976	2130

• Tolerance of measurement of luminous intensity is $\pm 15\%$

COLOR BIN LIMIT ($I_F = 20 \text{ mA}$)

Red			Gre	en			Blue		
Bin Code	Min.(nm)	Max.(nm)	Bi	n Code	Min.(nm)	Max.(nm)	Bin Code	Min.(nm)	Max.(nr
RB	619	624		G7	520	525	B3	460	465
				G8	525	530	B4	465	470
				G9	530	535	B5	470	475

• Tolerance of measurement of dominant wavelength is ±1 nm

C5SMF

Color	Kit Number	Luminous Inte	ensity (mcd)		Dominant Wavelength				Standoff
COIOF	Kit Number	Min.	Max.	Color Bin	Min. (nm)	Color Bin	Max. (nm)	Package	Standon
Red	C5SMF-RJF-CT0W0BB1	1100	4180	RB	619	RB	624	Bulk	Yes
Red	C5SMF-RJF-CT14QBB1	Any 4 consecutiv (1100) - U		RB	619	RB	624	Bulk	Yes
Red	C5SMF-RJF-CT34QBB1	Any 4 consecutiv (1310) - U		RB	619	RB	624	Bulk	Yes
Red	C5SMF-RJF-CU14QBB1	Any 4 consecutiv (1520) - V		RB	619	RB	624	Bulk	Yes
Red	C5SMF-RJE-CT0W0BB1	1100	4180	RB	619	RB	624	Bulk	No
Red	C5SMF-RJE-CT14QBB1	Any 4 consecutiv (1100) - U		RB	619	RB	624	Bulk	No
Red	C5SMF-RJE-CT34QBB1	Any 4 consecutiv (1310) - U		RB	619	RB	624	Bulk	No
Red	C5SMF-RJE-CU14QBB1	Any 4 consecutiv (1520) - V		RB	619	RB	624	Bulk	No
Red	C5SMF-RJF-CT0W0BB2	1100	4180	RB	619	RB	624	Ammo	Yes
Red	C5SMF-RJF-CT14QBB2	Any 4 consecutiv (1100) - U		RB	619	RB	624	Ammo	Yes
Red	C5SMF-RJF-CT34QBB2	Any 4 consecutiv (1310) - U		RB	619	RB	624	Ammo	Yes
Red	C5SMF-RJF-CU14QBB2	Any 4 consecutiv (1520) - V		RB	619	RB	624	Ammo	Yes
Red	C5SMF-RJE-CT0W0BB2	1100	4180	RB	619	RB	624	Ammo	No
Red	C5SMF-RJE-CT14QBB2	Any 4 consecutiv (1100) - U		RB	619	RB	624	Ammo	No
Red	C5SMF-RJE-CT34QBB2	Any 4 consecutiv (1310) - U		RB	619	RB	624	Ammo	No
Red	C5SMF-RJE-CU14QBB2	Any 4 consecutiv (1520) - V		RB	619	RB	624	Ammo	No

C5SMF

		Luminous Inte	ensity (mcd)		Dominant	Wavelength			
Color	Kit Number	Min.	Max.	Color Bin	Min. (nm)	Color Bin	Max. (nm)	Package	Standoff
Green	C5SMF-GJF-CV0Y0791	2130	8200	G7	520	G9	535	Bulk	Yes
Green	C5SMF-GJF-CW34Q7T1	Any 4 consecutiv (3590) - X		Any 1 color	bin from G7	(520 nm) to (G8 (530 nm)	Bulk	Yes
Green	C5SMF-GJF-CX14Q7T1	Any 4 consecutiv (4180) - Y		Any 1 color	bin from G7	(520 nm) to (G8 (530 nm)	Bulk	Yes
Green	C5SMF-GJE-CV0Y0791	2130	8200	G7	520	G9	535	Bulk	No
Green	C5SMF-GJE-CW34Q7T1	Any 4 consecutiv (3590) - X		Any 1 color	bin from G7	(520 nm) to (G8 (530 nm)	Bulk	No
Green	C5SMF-GJE-CX14Q7T1	Any 4 consecutiv (4180) - Y		Any 1 color	bin from G7	(520 nm) to (G8 (530 nm)	Bulk	No
Green	C5SMF-GJF-CV0Y0792	2130	8200	G7	520	G9	535	Ammo	Yes
Green	C5SMF-GJF-CW34Q7T2	Any 4 consecutiv (3590) - X		Any 1 color	bin from G7	(520 nm) to (G8 (530 nm)	Ammo	Yes
Green	C5SMF-GJF-CX14Q7T2	Any 4 consecutiv (4180) - Y		Any 1 color	bin from G7	(520 nm) to (G8 (530 nm)	Ammo	Yes
Green	C5SMF-GJE-CV0Y0792	2130	8200	G7	520	G9	535	Ammo	No
Green	C5SMF-GJE-CW34Q7T2	Any 4 consecutiv (3590) - X		Any 1 color	bin from G7	(520 nm) to (G8 (530 nm)	Ammo	No
Green	C5SMF-GJE-CX14Q7T2	Any 4 consecutiv (4180) - Y		Any 1 color	bin from G7	(520 nm) to (G8 (530 nm)	Ammo	No

C5SMF

Color		Luminous In	tensity (mcd)		Dominant V	Vavelength		Dackage	Standoff
Color	Kit Number	Min.	Max.	Color Bin	Min.(nm)	Color Bin	Max. (nm)	Package	Standoff
Blue	C5SMF-BJF-CR0U0351	550	2130	В3	460	В5	475	Bulk	Yes
Blue	C5SMF-BJF-CR0U0451	550	2130	B4	465	B5	475	Bulk	Yes
Blue	C5SMF-BJF-CT14Q3T1		utive sub-bins: - U2 (1824)	Any 1 color	r bin from B3 (460 nm) to B	84 (470 nm)	Bulk	Yes
Blue	C5SMF-BJF-CT14Q4T1		utive sub-bins: - U2 (1824)	Any 1 color	r bin from B4 (465 nm) to B	85 (475 nm)	Bulk	Yes
Blue	C5SMF-BJF-CT34Q3T1		utive sub-bins: - U4 (2130)	Any 1 color	r bin from B3 (460 nm) to B	84 (470 nm)	Bulk	Yes
Blue	C5SMF-BJF-CT34Q4T1		utive sub-bins: - U4 (2130)	Any 1 color	r bin from B4 (465 nm) to B	35 (475 nm)	Bulk	Yes
Blue	C5SMF-BJE-CR0U0351	550	2130	В3	460	B5	475	Bulk	No
Blue	C5SMF-BJE-CR0U0451	550	2130	B4	465	B5	475	Bulk	No
Blue	C5SMF-BJE-CT14Q3T1		utive sub-bins: - U2 (1824)	Any 1 color	r bin from B3 (460 nm) to B	84 (470 nm)	Bulk	No
Blue	C5SMF-BJE-CT14Q4T1		utive sub-bins: - U2 (1824)	Any 1 color	r bin from B4 (465 nm) to B	35 (475 nm)	Bulk	No
Blue	C5SMF-BJE-CT34Q3T1		utive sub-bins: - U4 (2130)	Any 1 color	r bin from B3 (460 nm) to B	34 (470 nm)	Bulk	No
Blue	C5SMF-BJE-CT34Q4T1		utive sub-bins: - U4 (2130)	Any 1 color	r bin from B4 (465 nm) to B	35 (475 nm)	Bulk	No
Blue	C5SMF-BJF-CR0U0352	550	2130	B3	460	В5	475	Ammo	Yes
Blue	C5SMF-BJF-CR0U0452	550	2130	B4	465	B5	475	Ammo	Yes
Blue	C5SMF-BJF-CT14Q3T2		utive sub-bins: - U2 (1824)	Any 1 color	r bin from B3 (460 nm) to B	34 (470 nm)	Ammo	Yes
Blue	C5SMF-BJF-CT14Q4T2		utive sub-bins: - U2 (1824)	Any 1 color	r bin from B4 (465 nm) to B	35 (475 nm)	Ammo	Yes
Blue	C5SMF-BJF-CT34Q3T2		utive sub-bins: - U4 (2130)	Any 1 color	r bin from B3 (460 nm) to B	34 (470 nm)	Ammo	Yes
Blue	C5SMF-BJF-CT34Q4T2		utive sub-bins: - U4 (2130)	Any 1 color	r bin from B4 (465 nm) to B	35 (475 nm)	Ammo	Yes
Blue	C5SMF-BJE-CR0U0352	550	2130	B3	460	В5	475	Ammo	No
Blue	C5SMF-BJE-CR0U0452	550	2130	B4	465	В5	475	Ammo	No
Blue	C5SMF-BJE-CT14Q3T2		utive sub-bins: - U2 (1824)	Any 1 color	r bin from B3 (460 nm) to E	34 (470 nm)	Ammo	No
Blue	C5SMF-BJE-CT14Q4T2		utive sub-bins: - U2 (1824)	Any 1 color	r bin from B4 (465 nm) to B	85 (475 nm)	Ammo	No
Blue	C5SMF-BJE-CT34Q3T2		utive sub-bins: - U4 (2130)	Any 1 color	r bin from B3 (460 nm) to B	34 (470 nm)	Ammo	No
Blue	C5SMF-BJE-CT34Q4T2		utive sub-bins: - U4 (2130)	Any 1 color	r bin from B4 (465 nm) to B	35 (475 nm)	Ammo	No

C5SM	E								
Color	Kit Number	Luminous I	ntensity (mcd)		Dominant		Package	Standoff	
COIOI	Kit Nullibei	Min.	Max.	Color Bin	Min.(nm)	Color Bin	Max.(nm)	гаскауе	Standon
Red	C5SME-RJF-CS0U0BB1	770	2130	RB	619	RB	624	Bulk	Yes
Red	C5SME-RJF-CS34QBB1		cutive sub-bins: - T4 (1520)	RB	619	RB	624	Bulk	Yes
Red	C5SME-RJF-CT14QBB1		cutive sub-bins:) - U2 (1824)	RB	619	RB	624	Bulk	Yes
Red	C5SME-RJE-CS0U0BB1	770	2130	RB	619	RB	624	Bulk	No
Red	C5SME-RJE-CS34QBB1		cutive sub-bins: - T4 (1520)	RB	619	RB	624	Bulk	No
Red	C5SME-RJE-CT14QBB1		cutive sub-bins:) - U2 (1824)	RB	619	RB	624	Bulk	No
Red	C5SME-RJF-CS0U0BB2	770	2130	RB	619	RB	624	Ammo	Yes
Red	C5SME-RJF-CS34QBB2		cutive sub-bins: - T4 (1520)	RB	619	RB	624	Ammo	Yes
Red	C5SME-RJF-CT14QBB2		cutive sub-bins:) - U2 (1824)	RB	619	RB	624	Ammo	Yes
Red	C5SME-RJE-CS0U0BB2	770	2130	RB	619	RB	624	Ammo	No
Red	C5SME-RJE-CS34QBB2		cutive sub-bins: - T4 (1520)	RB	619	RB	624	Ammo	No
Red	C5SME-RJE-CT14QBB2		cutive sub-bins:) - U2 (1824)	RB	619	RB	624	Ammo	No

Notes:

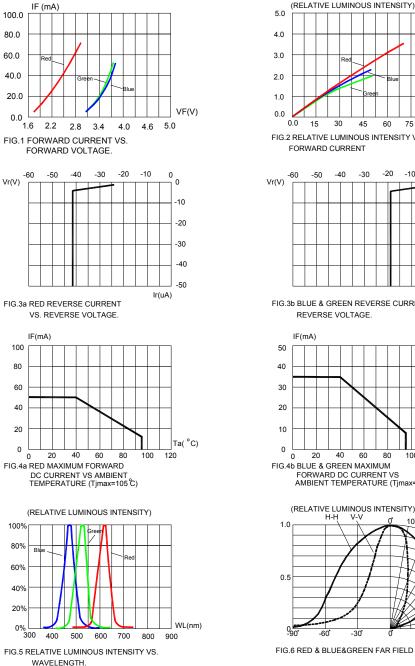
- The above kit numbers represent order codes that include multiple intensity-bin and color-bin codes. Only one
 intensity-sub-bin code and one color-bin code will be shipped on each reel. Selected single intensity-bin, single
 color-bin codes will be orderable in certain quantities. For example, any four consecutive sub-bins from V1 to W2
 mean only one intensity bin with four sub-bins of the following brightness ranges (V1-V4, V2-W1, V3-W2) will be
 shipped by Cree. For example, any one-color bin from G7 to G9 means only one color bin (G7 or G8 or G9) will be
 shipped by Cree.
- 2. Please refer to the "Cree LED Lamp Reliability Test Standards" document #1 for reliability test conditions.

3. Please refer to the "Cree LED Lamp Soldering & Handling" document #2 for information about how to use this LED product safely.

#1: Refer to http://www.cree.com/led-components/media/documents/LED_Lamp_Reliability_Test_Standard.pdf #2: Refer to http://www.cree.com/led-components/media/documents/sh-HB.pdf



GRAPHS



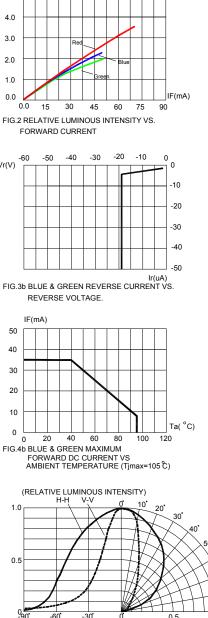


FIG.6 RED & BLUE&GREEN FAR FIELD PATTERN

The above data are collected from statistical figures that do not necessarily correspond to the actual parameters of each single LED. Hence, these data will be changed without further notice.

80 ____90° 1.0

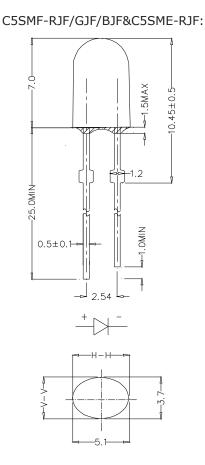


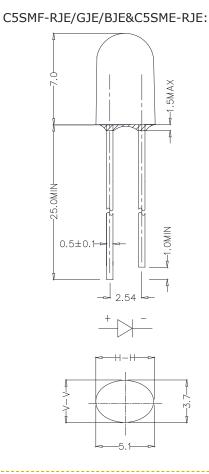
MECHANICAL DIMENSIONS

All dimensions are in mm. Tolerance is ± 0.25 mm unless otherwise noted.

An epoxy meniscus may extend about 1.5 mm down the leads.

Burr around bottom of epoxy may be 0.5 mm max.





NOTES

Lead Frame Materials

Ag-plated and Lead-free Solder-plated iron.

RoHS Compliance

The levels of RoHS-restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application in accordance with EU Directive 2011/65/EC (RoHS2), as implemented by EU member states on January 2, 2013 and amended on March 31, 2015 by EU Directive 2015/863/EU.

RoHS Declarations for this product can be obtained from your Cree representative or from the Product Ecology section of the Cree website.

Vision Advisory Claim

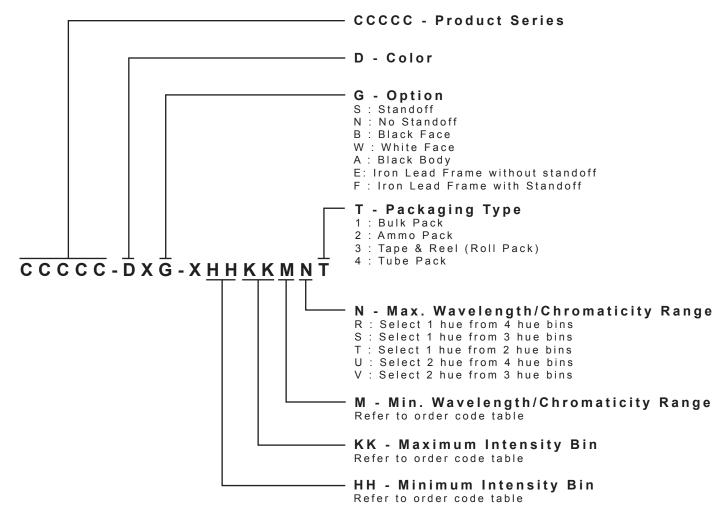
Users should be cautioned not to stare at the light of this LED product. The bright light can damage the eye.



KIT NUMBER SYSTEM

All dimensions in mm.Cree LED lamps are tested and sorted into performance bins. A bin is specified by ranges of color, forward voltage, and brightness. Sorted LEDs are packaged for shipping in various convenient options. Please refer to the "Cree LED Lamp Packaging Standard" document for more information about shipping and packaging options.

Cree LEDs are sold by order codes in combinations of bins called kits. Order codes are configured in the following manner:



* Please contact our sales representative for ordering information.



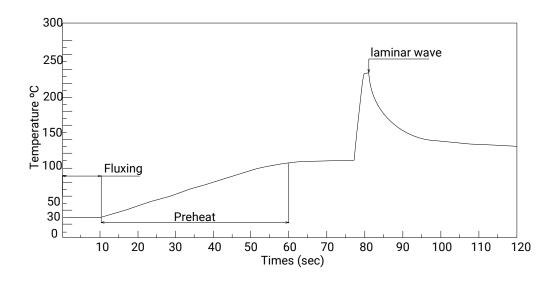
REFLOW SOLDERING

The LED soldering specification is shown below(suitable for both leaded solder & lead-free solder):

Manual Solderi	ing	Solder Dipping			
Soldering iron	35 W max	Preheat	110 °C max		
Tomporatura	perature 300 °C max	Preheat time	60 seconds max		
Temperature	Sou of max	Solder-bath temperature	260 °C Max		
Soldering time	3 seconds max	Dipping time	5 seconds max		
Position	Not less than 3 mm from the base of the package.	Position	Not less than 3 mm from the base of the package.		

• Manual soldering onto the PCB is not recommended because soldering time is uncontrollable.

• The recommended wave soldering is as below:



- Do not apply any stress to the LED package, particularly when heated.
- Only bottom preheat is suggested & should not preheat on top in order to reduce thermal stress experienced by the LEDs.
- The LEDs must not be re used once they have been extracted from PCB.
- After soldering the LEDs, the package should be protected from mechanical shock or vibration until the LEDs have reached 40 °C or below.
- Precautions must be taken as mechanical stress on the LEDs may be caused by PCB warpage or from the clinching and cutting of the LED leads.
- When it is necessary to clam the LEDs during soldering, it is important to ensure no mechanical stress is exerted on the LEDs.
- Cut the LED lead at normal room temperature. Lead cutting at high temperature may cause failure of the LEDs.

Refer to "http://www.cree.com/led-components/media/documents/sh-HB.pdf" for soldering & handling details.



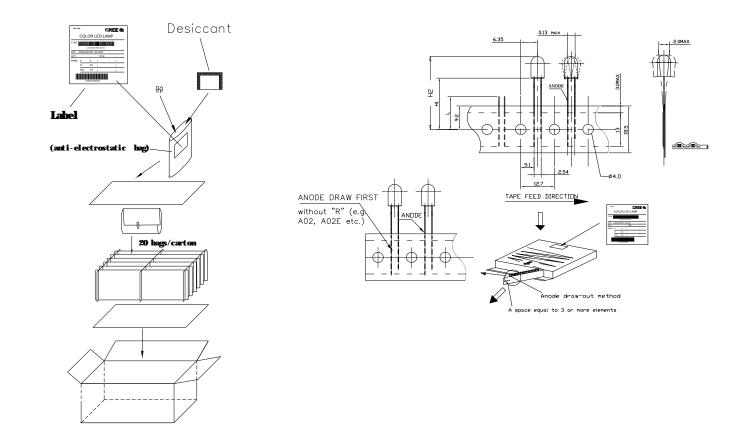
PACKAGING

Features:

- The LEDs are packed in cardboard boxes after packaging in normal or anti-electrostatic bags.
- Cardboard boxes will be used to protect the LEDs from mechanical shock during transportation.
- The boxes are not water resistant, and they must be kept away from water and moisture.
- The Bulk Pack types of packaging.
- Max 500 pcs per bulk and Max 2500 pcs per ammo.

Bulk Pack Packaging Type:

Ammo Pack Packaging Type:



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cree LED:

C5SMF-RJE-CV14QBB2 C5SMF-GJE-CW14Q7T1 C5SMF-RJE-CT34QBB1 C5SMF-GJF-CV0Y0792 C5SMF-RJF-CU34QBB1 C5SMF-RJF-CV14QBB2 C5SMF-GJE-CX14Q7T1 C5SMF-BJE-CR24Q4T2 C5SMF-BJE-CS24Q4T2 C5SME-RJE-CT14QBB2 C5SMF-GJE-CV0Y0791 C5SMF-GJE-CV14Q7T1 C5SMF-BJE-CS24Q4T1 C5SMF-RJF-CT14QBB2 C5SMF-BJE-CT14Q4T2 C5SMF-RJE-CU34QBB2 C5SME-RJF-CS34QBB1 C5SMF-GJF-CX14Q7T1 C5SMF-BJF-CT14Q3T2 C5SMF-GJF-CV14Q7T2 C5SMF-RJF-CT0W0BB1 C5SME-RJF-CS34QBB2 C5SMF-BJE-CR14Q4T2 C5SMF-RJF-CT34QBB2 C5SMF-GJF-CW14Q7T1 C5SMF-BJF-CR0U0351 C5SMF-RJE-CT14QBB2 C5SMF-BJF-CR14Q3T2 C5SMF-BJF-CR14Q3T1 C5SMF-BJE-CR14Q4T1 C5SMF-BJE-CT14Q3T2 C5SMF-GJE-CV0Y0792 C5SMF-RJF-CT14QBB1 C5SMF-BJE-CT14Q3T1 C5SMF-GJF-CX14Q7T2 C5SMF-RJE-CT0W0BB2 C5SMF-GJE-CX14Q7T2 C5SMF-RJF-CT0W0BB2 C5SMF-BJE-CR0U0351 C5SMF-BJF-CT14Q3T1 C5SMF-GJF-CW34Q7T2 C5SMF-BJE-CS24Q3T2 C5SMF-BJF-CR0U0352 C5SME-RJF-CS0U0BB2 C5SMF-GJE-CV14Q7S1 C5SMF-BJF-CT14Q4T1 C5SMF-RJE-CT0W0BB1 C5SMF-GJE-CW14Q7T2 C5SME-RJE-CS14QBB1 C5SMF-BJE-CR0U0452 C5SMF-BJF-CR24Q4T2 C5SMF-BJF-CS24Q3T1 C5SMF-BJF-CT14Q4T2 C5SMF-RJE-CT34QBB2 C5SMF-BJF-CS24Q3T2 C5SMF-BJE-CR14Q3T2 C5SME-RJE-CS0U0BB1 C5SME-RJF-CS14QBB1 C5SMF-BJF-CS24Q4T2 C5SMF-GJF-CV14Q7T1 C5SMF-BJF-CR14Q4T1 C5SMF-GJE-CV14Q7S2 C5SMF-BJE-CR14Q3T1 C5SME-RJF-CS14QBB2 C5SME-RJF-CT14QBB2 C5SME-RJE-CS34QBB2 C5SME-RJF-CS0U0BB1 C5SMF-BJE-CR24Q4T1 C5SME-RJE-CS14QBB2 C5SMF-GJE-CW34Q7T2 C5SMF-RJE-CV14QBB1 C5SMF-BJF-CS24Q4T1 C5SME-RJE-CT14QBB1 C5SMF-BJE-CR0U0451 C5SMF-RJF-CU14QBB2 C5SMF-GJE-CW34Q7T1 C5SMF-GJF-CW14Q7T2 C5SMF-BJF-CR0U0451 C5SMF-RJE-CT14QBB1 C5SMF-RJF-CV14QBB1 C5SMF-BJE-CS24Q3T1 C5SME-RJF-CT14QBB1 C5SME-RJE-CS34QBB1 C5SMF-BJF-CR0U0452 C5SMF-RJE-CU14QBB2 C5SMF-RJE-CU14QBB1 C5SMF-BJF-CR14Q4T2 C5SME-RJE-CS0U0BB2 C5SMF-GJF-CV14Q7S2 C5SMF-RJF-CU14QBB1 C5SMF-GJE-CV14Q7T2 C5SMF-RJE-CU34QBB1 C5SMF-GJF-CW34Q7T1 C5SMF-RJF-CU34QBB2 C5SMF-BJE-CT14Q4T1 C5SMF-RJF-CT34QBB1 C5SMF-BJF-CR24Q4T1 C5SMF-BJE-CR0U0352 C5SMF-GJF-CV0Y0791