

# LED LAMP ARRAYS

EVERLIGHT

T-41-33

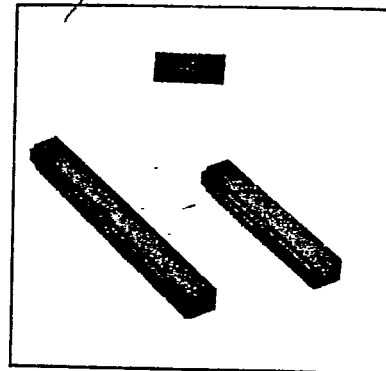
Entered 10-29-87 Jwm

OK 04/1300

## LED LAMP ARRAYS 22B SERIES

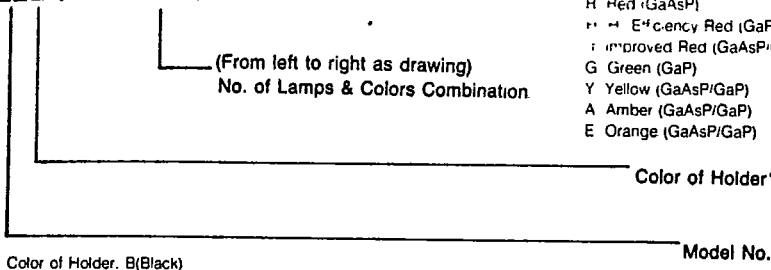
### MODEL NO. AND HOLDER LENGTH:

22B/ 2X: L=13.0mm	22B/ 6X: L=37.0mm	22B/10X: L=61.0mm
22B/ 3X: L=19.0mm	22B/ 7X: L=43.0mm	22B/11X: L=67.0mm
22B/ 4X: L=25.0mm	22B/ 8X: L=49.0mm	22B/12X: L=73.0mm
22B/ 5X: L=31.0mm	22B/ 9X: L=55.0mm	



### SELECTION GUIDE:

22B / 1H + 2Y + 2G



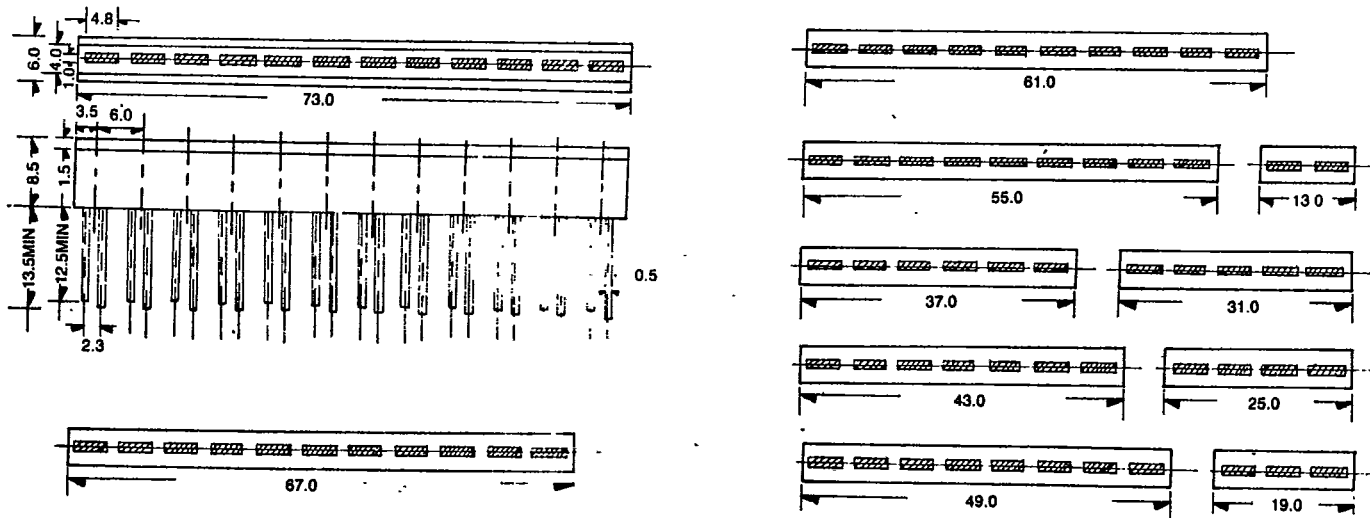
- H Red (GaAsP)
- H High Efficiency Red (GaP)
- I Improved Red (GaAsP/GaP)
- G Green (GaP)
- Y Yellow (GaAsP/GaP)
- A Amber (GaAsP/GaP)
- E Orange (GaAsP/GaP)

Color of Holder. B(Black)

### LAMP SPECIFICATIONS:

Lamp Size	Type No. and Remark (*)	Chip		Lens Color	Peak Wave Length λp (nm)	Absolute Maximum Ratings				Viewing Angle 2θ½ (deg)	Electro-Optical Characteristics						
		Material	Emitted Color			P <sub>o</sub> (mW)	I <sub>F</sub> (mA)	Peak I <sub>F</sub> (mA)	V <sub>F</sub> (V)			I <sub>v</sub> (mcd)					
									Min.		Typ.	Max.	Rec. I <sub>F</sub> (mA)	Min.	Typ.	I <sub>F</sub> (mA)	
1.0mm x 4.8mm Rectangular Type 0.5° Lead Length	712RD	GaAsP	Red	D-flused	655	40	110	40	200	120	1.5	1.7	2.0	10-20	0.2	0.4	10
	712HD	GaP	Bright Red		697	90	45	15	50	120	1.7	2.1	2.8	5-10	0.3	0.5	10
	712ID	GaAsP/GaP	Hi-Eff Red		635	45	100	30	160	120	1.7	2.0	2.8	10-20	0.4	1.2	10
	712GD	GaP	Green		565	30	100	30	160	120	1.7	2.1	2.8	10-20	0.4	1.2	10
	712YD	GaAsP/GaP	Yellow		585	35	85	20	160	120	1.7	2.0	2.8	10-20	0.3	1.0	10
	712AD	GaAsP/GaP	Yellow		600	35	85	20	160	120	1.7	2.0	2.8	10-20	0.3	1.0	10
	712ED	GaAsP/GaP	Orange		635	45	100	30	160	120	1.7	2.0	2.8	10-20	0.4	1.2	10

### PACKAGE DIMENSIONS:



- NOTE: 1. All dimensions are in millimeters.  
 2. Lead spacing is measured where the leads emerge from the package.  
 3. Protruded resin under flange 1.5 mm (0.059") Max.  
 4. L: the whole length of the holder.  
 5. All Tolerance is 0.25mm unless otherwise noted.



# LED LAMP ARRAYS

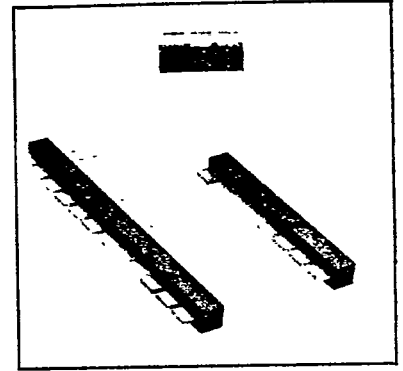
T-41-31

*Entered 10-29-81 from 09/1300*

## LED LAMP ARRAYS 32B SERIES

### MODEL NO. AND HOLDER LENGTH:

32B/ 2X: L = 13.0mm	32B/ 6X: L = 37.0mm	32B/10X: L = 61.0mm
32B/ 3X: L = 19.0mm	32B/ 7X: L = 43.0mm	32B/11X: L = 67.0mm
32B/ 4X: L = 25.0mm	32B/ 8X: L = 49.0mm	32B/12X: L = 73.0mm
32B/ 5X: L = 31.0mm	32B/ 9X: L = 55.0mm	



### SELECTION GUIDE:

32B / 1H + 2Y + 2G

(From left to right as drawing)  
No. of Lamps & Colors Combination

R: Red (GaAsP)  
H: Hi-Efficiency Red (GaP)  
I: Improved Red (GaAsP/GaP)  
G: Green (GaP)  
Y: Yellow (GaAsP/GaP)  
A: Amber (GaAsP/GaP)  
E: Orange (GaAsP/GaP)

Color of Holder\*

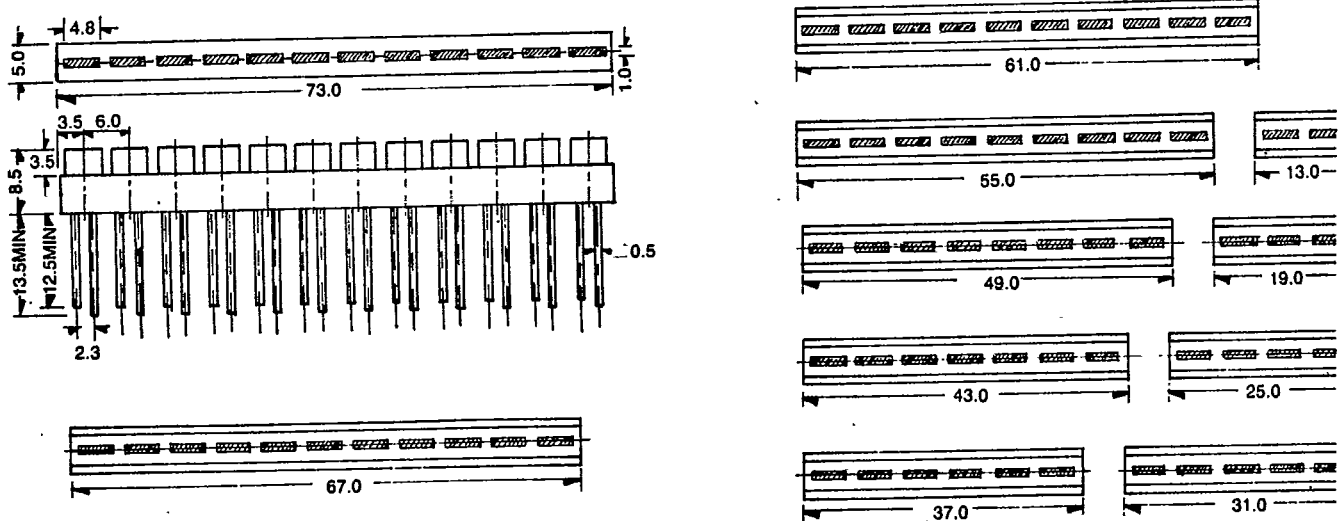
Model No.

Color of Holder: B(Black)

### LAMP SPECIFICATIONS:

Lamp Size	Type No. and Remark (*)	Chip		Lens Color	Peak Wave Length λp (nm)	Absolute Maximum Ratings				Viewing Angle 2θ½ (deg)	Electro-Optical Characteristics						
		Material	Emitted Color			Δλ (nm)	Po (mW)	If (mA)	Peak If (mA)		VF (V)			Rec. If (mA)	Iv (mcd)		
											Min.	Typ.	Max.		Min.	Typ.	If (mA)
1.0mm x 4.8mm Rectangular Type 0.5" Lead Length	712RD	GaAsP	Red	Color	655	40	110	40	200	120	1.5	1.7	2.0	10-20	0.2	0.4	10
	712HD *	GaP	Bright Red		697	90	45	15	50	120	1.7	2.1	2.8	5-10	0.3	0.5	10
	712ID	GaAsP GaP	Hi-Eff Red		635	45	100	30	160	120	1.7	2.0	2.8	10-20	0.4	0.7	10
	712GD *	GaP	Green		565	30	100	30	160	120	1.7	2.1	2.8	10-20	0.4	0.7	10
	712YD	GaAsP/GaP	Yellow		585	35	85	20	160	120	1.7	2.0	2.8	10-20	0.3	0.5	10
	712AD	GaAsP GaP	Yellow		600	35	85	20	160	120	1.7	2.0	2.8	10-20	0.3	0.5	10
	712ED	GaAsP GaP	Orange		635	45	100	30	160	120	1.7	2.0	2.8	10-20	0.4	0.7	10

### PACKAGE DIMENSIONS:



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