

QT-Brightek Lamp with Housing Series
3mm Round Lamp with Eight level Housing
Part No.: QBL7XX80D-MP8B2_series

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Introduction

Feature:

- Color Diffused lens
- Packaged in Tray
- 3mm round TH lamp with housing
- GaAsP technology for Orange, Yellow
- GaP technology for Yellow-Green, Red
- Viewing angle: 80° typ.

Description:

These 3mm round type lamps with eight level housing is easy to mount on the panels.

Application:

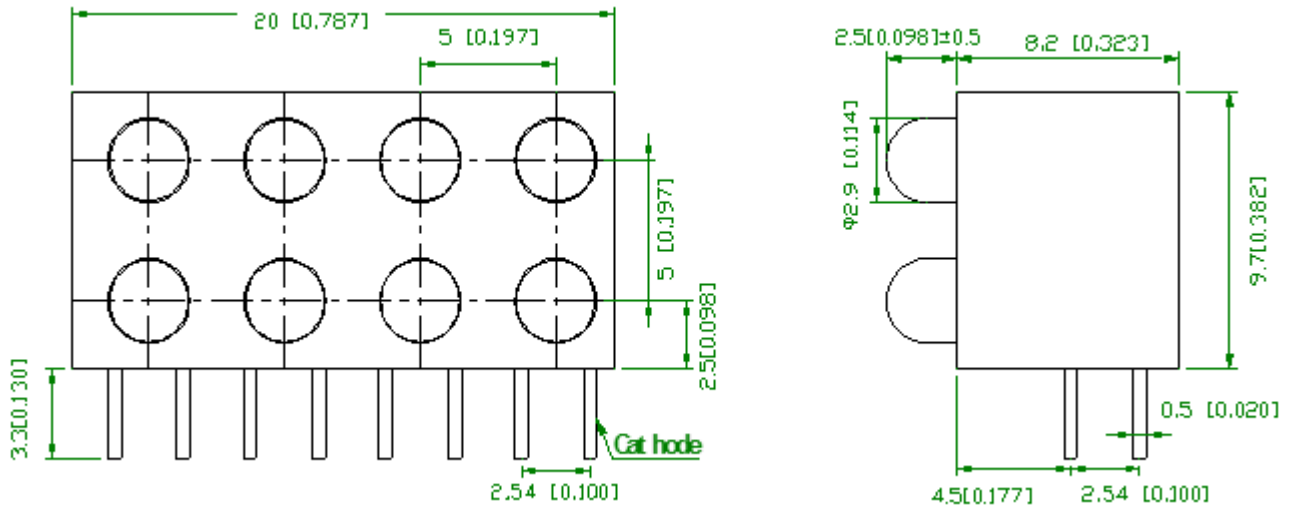
- General purpose indicator application
- Electronic instrument

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / general tolerance = +/-0.5mm unless otherwise specified

Electrical / Optical Characteristic (Ta=25°C)

Product	Color	I _F (mA)	V _F (V)		λ _D (nm)			I _V (mcd)	
			Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.
QBL7SB80D-MP8B2	GaP Red	20	2.0	2.6	--	640	--	15	30
QBL7OA80D-MP8B2	Orange	20	2.0	2.6	--	603	--	13	30
QBL7YA80D-MP8B2	Yellow	20	2.0	2.6	--	588	--	13	30
QBL7YG80D-MP8B2	GaP Green	20	2.2	2.6	--	570	--	13	30

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
GaAsP	78	30	100	5	-40 to +80	-40 to +85	260
GaP	78	30	100	5	-40 to +80	-40 to +85	260

*Duty=0.1, 0.1ms Pulse Width

**Wave Soldering for no more than 3 sec @ 260 °C

Note:

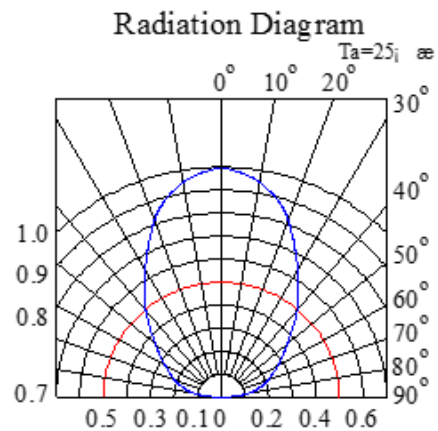
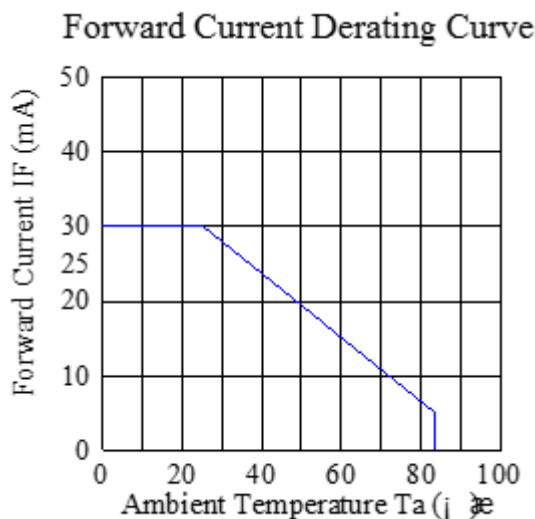
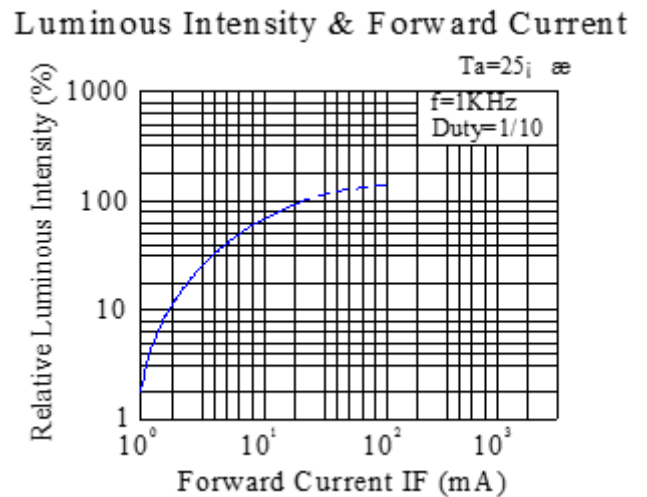
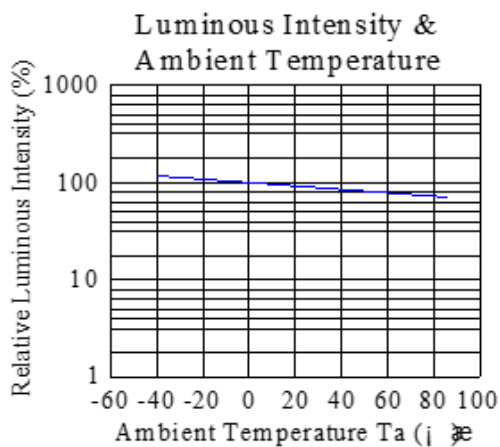
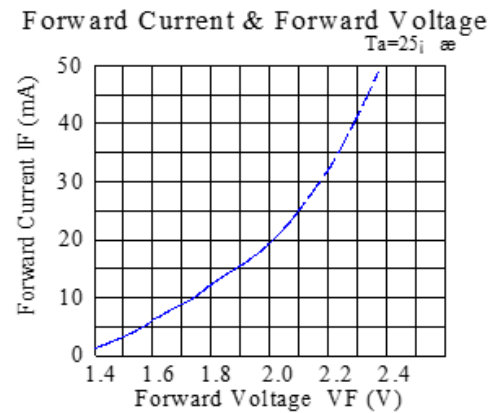
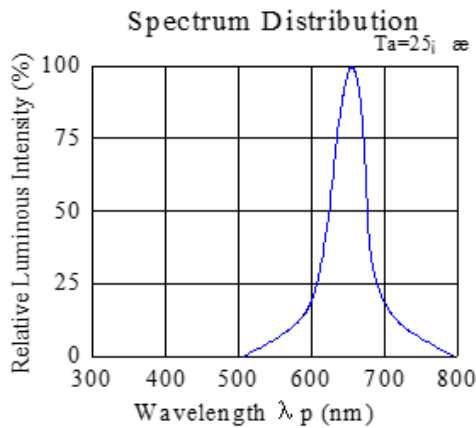
Tolerance of measurement of forward voltage: ±0.1V

Tolerance of measurement of luminous intensity: ±15%

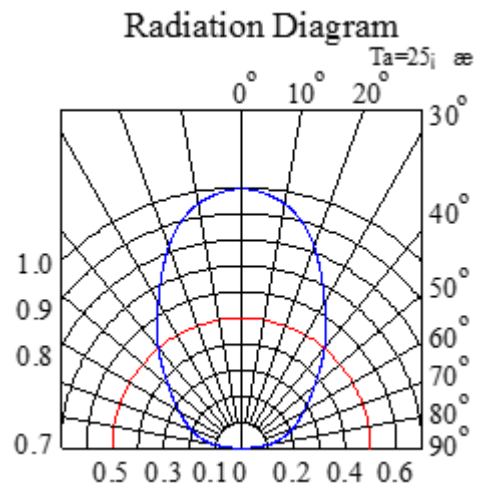
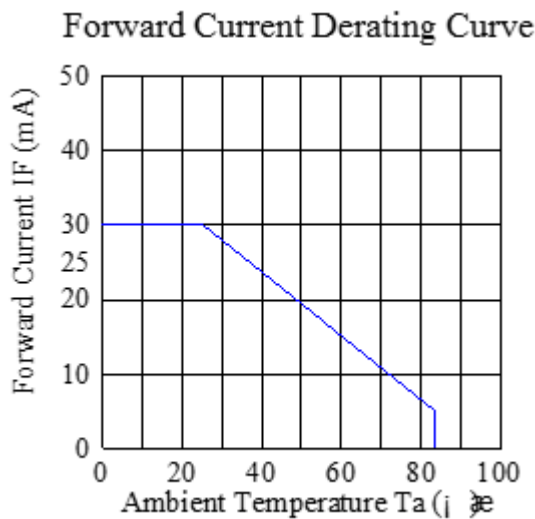
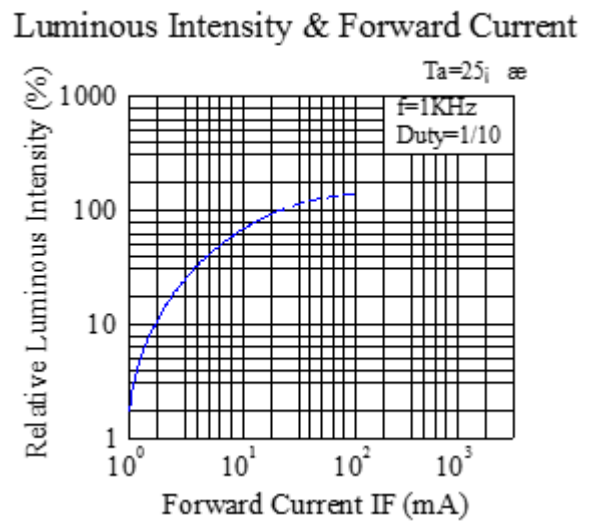
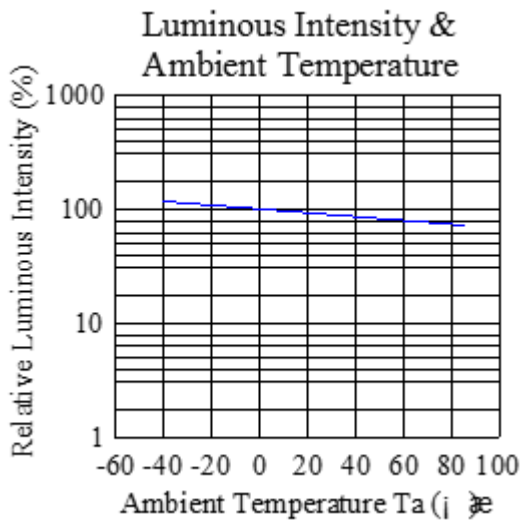
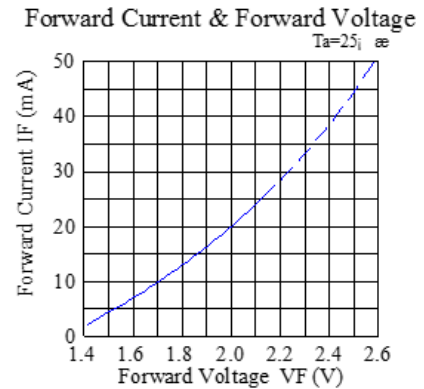
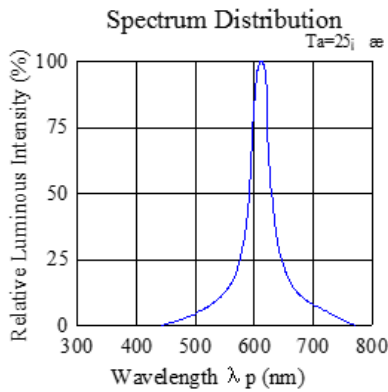
Tolerance of measurement of dominant wavelength: ±2nm

Characteristic Curves

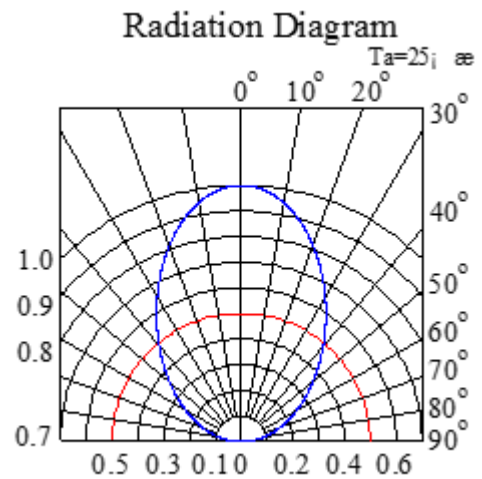
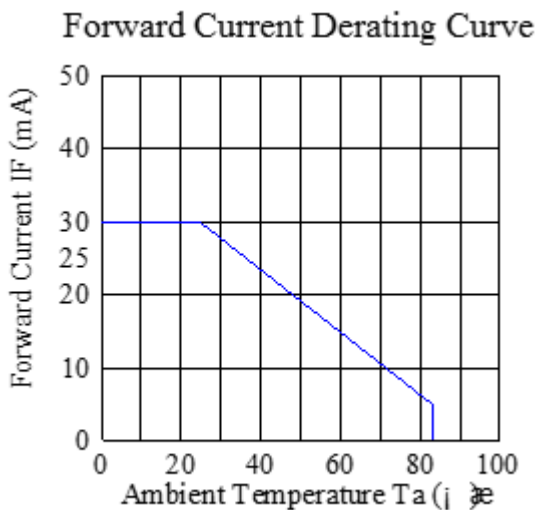
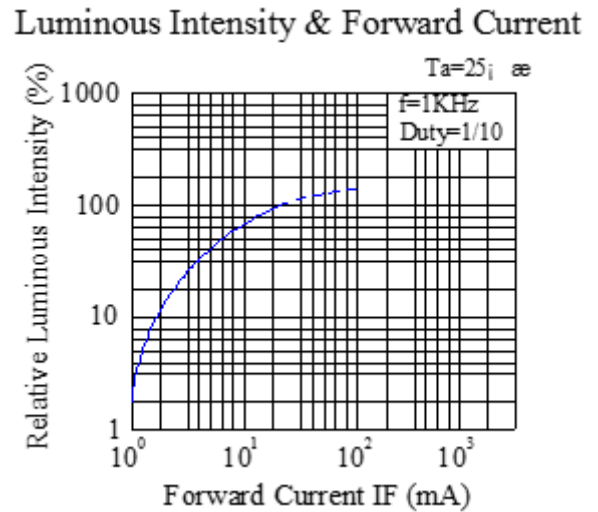
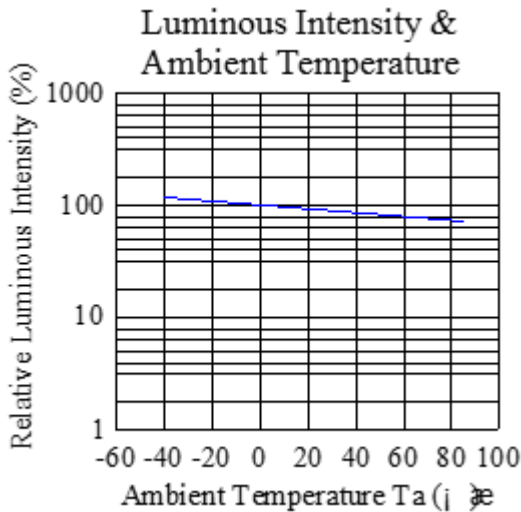
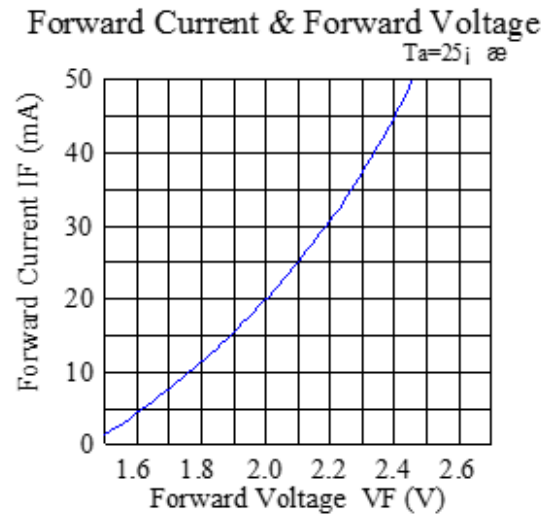
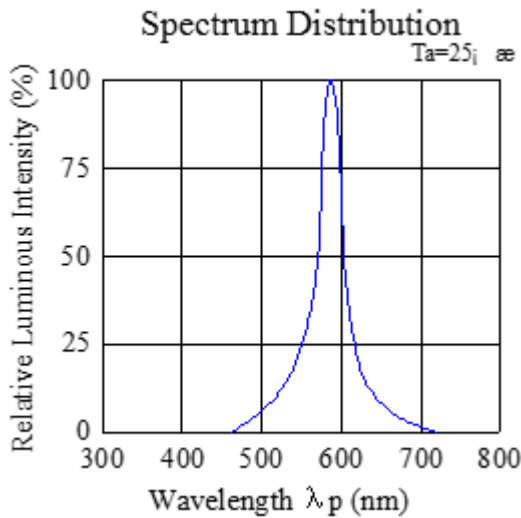
GaP Red



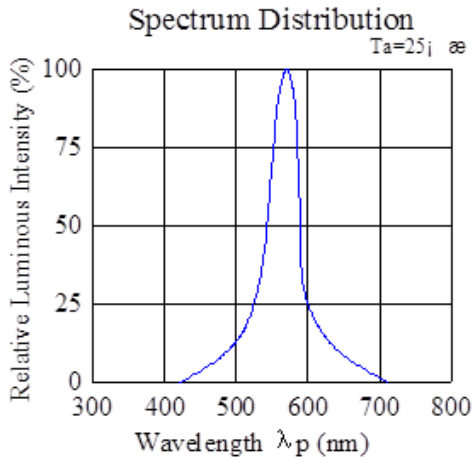
GaAsP Orange



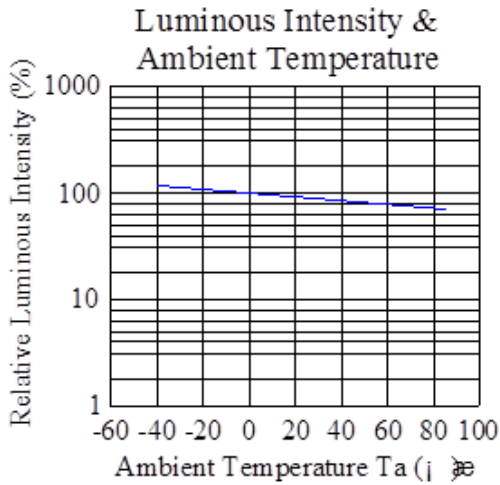
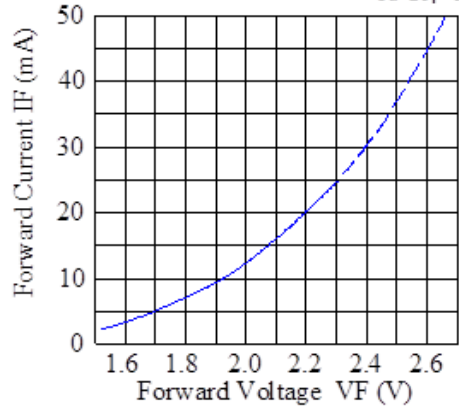
GaAsP Yellow



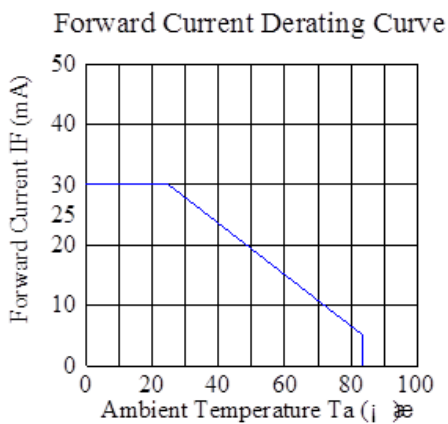
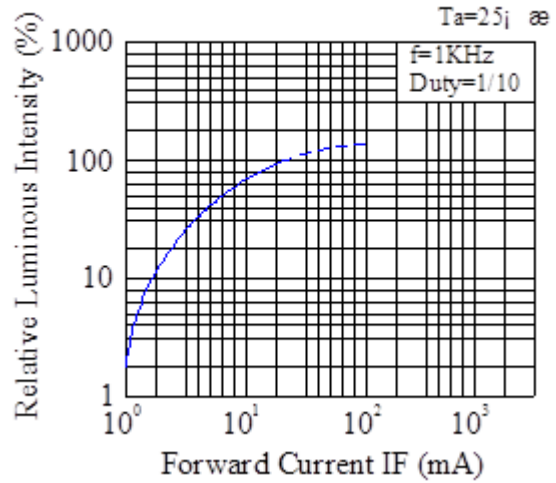
GaP Yellow-Green



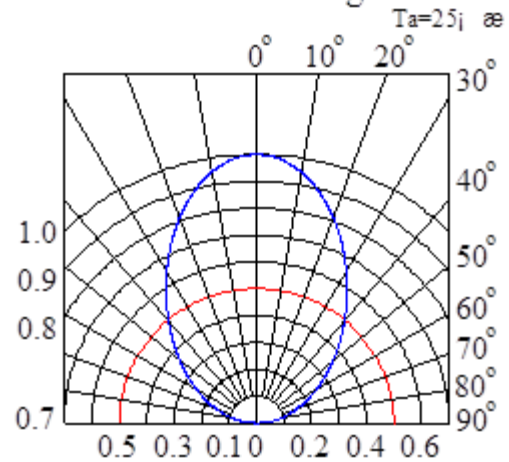
Forward Current & Forward Voltage
 $T_a=25j\text{ }^\circ\text{C}$



Luminous Intensity & Forward Current
 $T_a=25j\text{ }^\circ\text{C}$



Radiation Diagram
 $T_a=25j\text{ }^\circ\text{C}$



Labeling

Part No: _____

Customer P/N: _____

Item: _____

Q'ty: _____

Vf: _____

Iv: _____

WI: _____

Date: _____

Made in China**Ordering Information**

Part #	Orderable Part #	Spec Range	Quantity per Tray
QBL7SB80D-MP8B2	QBL7SB80D-MP8B2	Iv=30mcd typ. @ 20mA, $\lambda_D=640\text{nm}$ typ.	120
QBL7OA80D-MP8B2	QBL7OA80D-MP8B2	Iv=30mcd typ. @ 20mA, $\lambda_D=603\text{nm}$ typ.	120
QBL7YA80D-MP8B2	QBL7YA80D-MP8B2	Iv=30mcd typ. @ 20mA, $\lambda_D=588\text{nm}$ typ.	120
QBL7YG80D-MP8B2	QBL7YG80D-MP8B2	Iv=30mcd typ. @ 20mA, $\lambda_D=570\text{nm}$ typ.	120

Revision History

Description:	Revision #	Revision Date
New Release of QBL7XX80D-MP8B2_series	V1.0	06/29/2016

Disclaimer

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.