

62035-X1X **M19500/519**
 M19500/520
 M19500/521

**JAN AND JANTX QUALIFIED,
PANEL MOUNT HERMETIC
LED INDICATORS**



04/27/2012

Features:

- Hermetically sealed
- Choice of colors (Red, Yellow, Green)
- Wide Viewing Angle
- Panel Mount with wire wrappable leads
- Designed for Hi-Reliability applications
- DLA qualified

Applications:

- P.C. Board Fault Indicator
- Logic Status Indicator
- Binary Data Display
- Power supply on/off indicator

DESCRIPTION

The **62035-X1X** series indicators contain a hermetically sealed visible LED in a TO-46 packages with a tinted diffused dome lens to provide good on/off contrast and a wide viewing angle. The /519 (red) and /520 (yellow) indicators utilize a high efficiency GaAsP on GaP LED, while the /521 (green) indicator utilizes a GaP on GaP LED. Each type uses a colored diffused plastic lens over a glass window. All versions are available in standard, JAN or JANTX screened levels.

ABSOLUTE MAXIMUM RATINGS

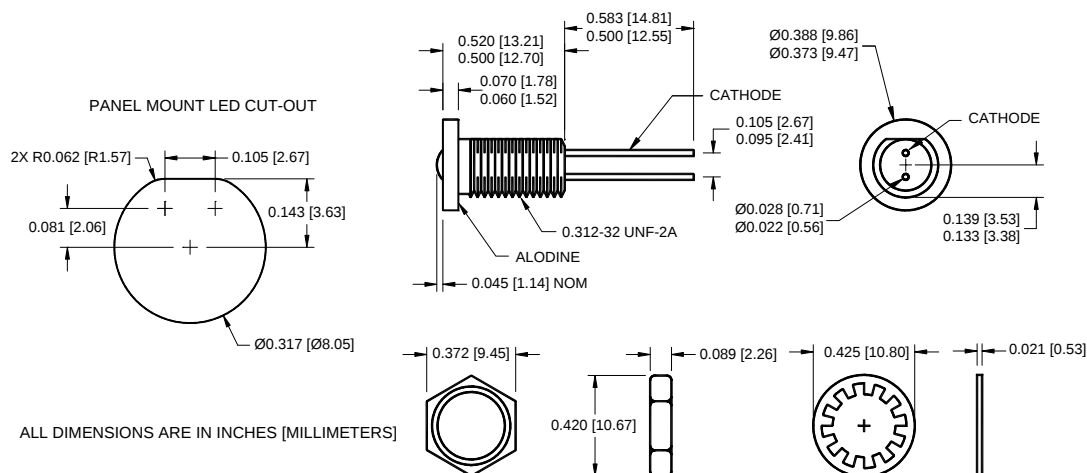
Reverse Voltage	5 Vdc
Power Dissipation (Note 1)	120 mW
Forward Current-Continuous	35 mA
Storage Temperature.....	-65°C to +100°C
Operating Temperature	-55°C to +100°C
Lead Soldering Temperature (10 seconds, 1/16" from case)	260°C
Maximum Mounting Torque (Panel mount version)	25 in•lbs

NOTES :

1. Derate at the rate of 1.6 mW/°C above 50°C.

Panel Mount Dimensions

Schematic Diagram



NOTES:

1. ALL EXTERNAL METAL SURFACES OF THE PACKAGE ARE BLACK ANODIZED EXCEPT FOR THE ALODINE AREA OF THE FLANGE AND THE GOLD-PLATED LEADS.
2. MOUNTING HARDWARE WHICH INCLUDES ONE LOCK WASHER AND ONE HEX NUT IS INCLUDED WITH EACH PANEL MOUNTABLE HERMETIC SOLID STATE LAMP.

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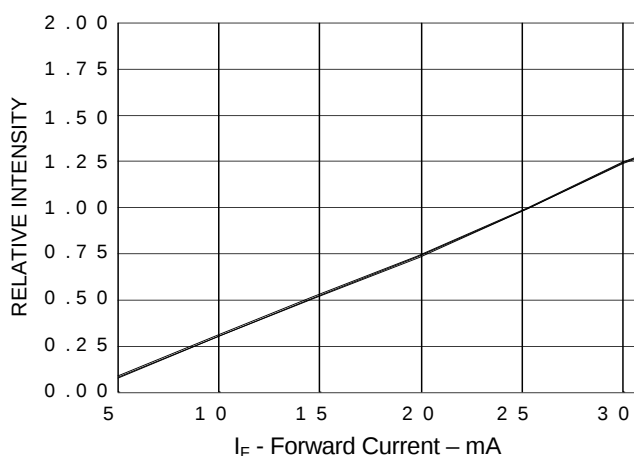
JAN AND JANTX QUALIFIED, PANEL MOUNT HERMETIC LED INDICATORS

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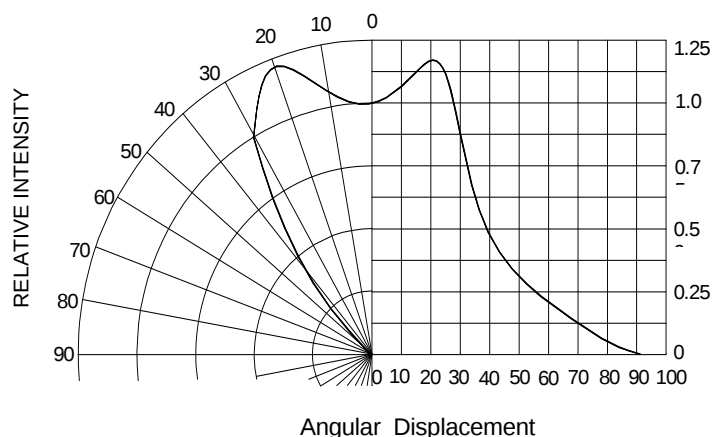
ELECTRICAL/OPTICAL CHARACTERISTICS TA=25°C

PART NUMBER	COLOR	TEST CONDITION	PARAMETER LIMITS				
		I_F	PEAK λ	$I_{V1} \theta = 0^\circ$	$I_{V2} \theta = 30^\circ$	V_F	C
		mA	TYP.	MIN.	MIN.	MAX.	MAX.
62035-11X	RED	20	635	3 mcd	1.5 mcd.	3 V	100 pF
62035-21X	YELLOW	20	585	3 mcd	1.5 mcd.	3 V	100 pF
62035-31X	GREEN	20	570	3 mcd	1.5 mcd.	3 V	100 pF

**Relative Luminous Intensity
vs
Forward Current**
(Normalized at 20 mA)



**Relative Luminous Intensity
vs.
Angular Displacement**



RECOMMENDED OPERATING CONDITIONS:

PARAMETER	SYMBOL	MIN	MAX	UNITS
Forward	I_F	20	35	mA
Operating Temperature	T_A	-65	+100	°C

SELECTION GUIDE

PART NUMBER	PART DESCRIPTION	CONTROLLING MIL DOCUMENT
62035-111	Commercial, Red LED, Panel Mount	M19500/519
62035-112	JAN Screened, Red LED, Panel Mount	M19500/519-01
62035-113	JANTX Screened, Red LED, Panel Mount	M19500/519-02
62035-211	Commercial, Yellow LED, Panel Mount	M19500/520
62035-212	JAN Screened, Yellow LED, Panel Mount	M19500/520-01
62035-213	JANTX Screened, Yellow LED, Panel Mount	M19500/520-02
62035-311	Commercial, Green LED, Panel Mount	M19500/521
62035-312	JAN Screened, Green LED, Panel Mount	M19500/521-01
62035-313	JANTX Screened, Green LED, Panel Mount	M19500/521-02