

120V Direct Line Voltage 16 mm Pilot Light Socket w/ LED

(LED lamp rated to 130V maximum input voltage)

MWPLS16-X120-X

ELECTRO-OPTICAL CHARACTERISTICS

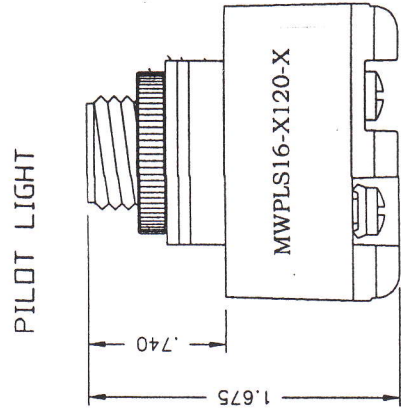
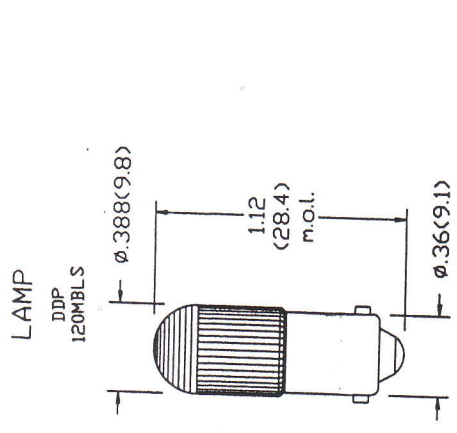
@ T_a = 25°C

SYM	PARAMETER	X = LED COLOR					UNIT
		RED	AMBER	GREEN	BLUE	WHITE	
I _v	TYP. LUMINOUS INTENSITY W/O LENS @ I _f =20mA	2180	2180	2300	700	2500	1800 mcd
V _o	OPERATING VOLTAGE RANGE	120	120	120	120	120	120 V
I _f	TYP. FORWARD CURRENT @ V _f =120V	7.1~7.3					3.7~3.8 mA
I _{mx}	MAX. FORWARD CURRENT @ V _f =130V	8.0	8.0	4.2	4.2	4.2	4.2 mA
V _{br}	REVERSE BREAKDOWN @ I _r =100μA	-	-	-	-	-	- V
λ _{pk}	PEAK WAVELENGTH	634	592	520	465	-	- nm
λ _d	DOMINANT WAVELENGTH	629	590	525	470	-	- nm

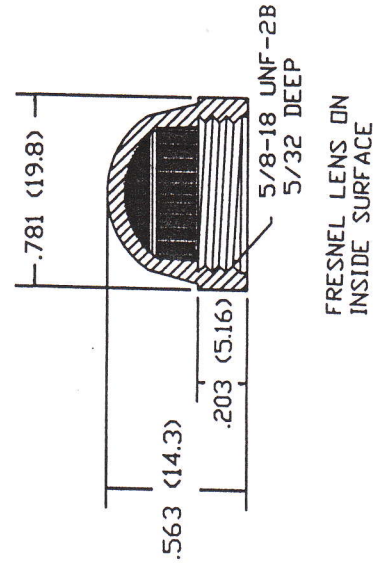
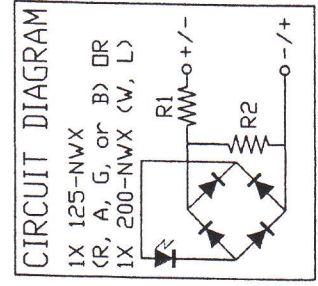
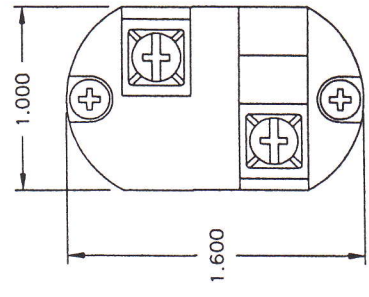
ABSOLUTE MAX. RATINGS T_a=25°C

PARAMETER	VALUE		UNIT
	R & A	G, B, V, L	
POWER DISSIPATION	1040	546	mW
DERATE/°C >T _a	15.6	8.2	mW
OPERATING VOLTAGE	130	130	V
OPERATING TEMPERATURE	-40<+100	-30<+85	°C
STORAGE TEMPERATURE	-40<+100	-40<+100	°C

- REMARKS:
1. Dimensions are in inches(mm).
 2. The lens is clear-tinted with a fresnel pattern.
 3. This device is immune to peak noise current of 1mA.
 4. Caution: GaInN LEDs are class 1 ESD sensitive (MIL-STD-1686). Exceeding absolute maximum ratings may cause damage to, or possibly result in catastrophic failure of these devices. Use appropriate ESD precautions during handling and operation.
 5. For white and warm-white LED chromaticity coordinate ranges, see drawings #502590 and #503841 respectively.
 6. Install lamp into pilot light before shipping.



LENS



MID/WEST COMPANY, LLC

Jeff Roberts
307 Merlin Drive
Weldon Spring, MO 63304
636-477-9466 Fax: 636-477-9467
jeff@midwestcoled.com
www.midwestcoled.com

Bob McClanahan
1213 Telford Drive
Liberty, MO 64068
816-792-8275 Cell: 816-616-8214
mmeclanahan@KC.RR.com
www.midwestcoled.com

130V Direct Line Voltage 16mm Pilot Light Socket w/ LED

(LED lamp rated to 140V maximum input voltage)

MWPLS16-X130-X

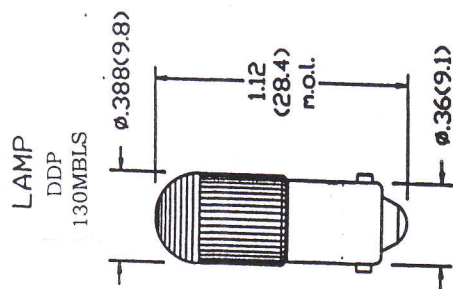
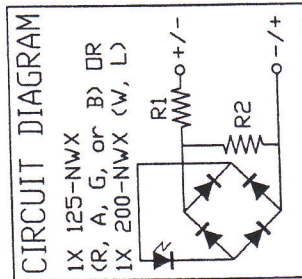
ELECTRO-OPTICAL CHARACTERISTICS

@ Ta = 25°C

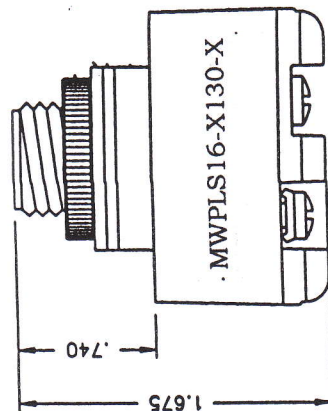
SYM	PARAMETER	X = LED COLOR					UNIT
		RED	AMBER	GREEN	BLUE	WHITE	
Iv	TYP. LUMINOUS INTENSITY V/D LENS @ If=20mA	2180	2180	2300	700	2500	1800
		130	130	130	130	130	130
Vo	OPERATING VOLTAGE RANGE	5.95~6.10	4.00~4.20				mA
		6.60	6.60	4.50	4.50	4.50	4.50
I _{rx}	MAX. FORWARD CURRENT @ Vf=140V	-	-	-	-	-	-
	REVERSE BREAKDOWN @ Ir=100uA	634	592	520	465	-	mV
λ _{pk}	PEAK WAVELENGTH	629	590	525	470	-	nm
	DOMINANT WAVELENGTH						nm

ABSOLUTE MAX. RATINGS Ta=25°C

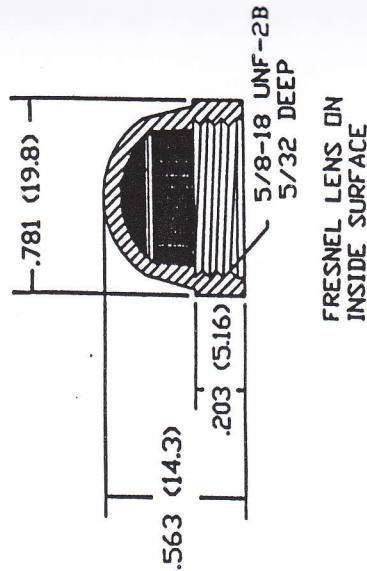
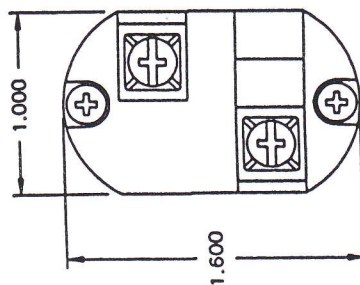
PARAMETER	VALUE			UNIT
	R & A	G, B, V, L		
POWER DISSIPATION	924	630		mW
DERATE/°C >Ta	13.9	9.4		mW
OPERATING VOLTAGE	140	140		V
OPERATING TEMPERATURE	-40<+100	-30<+85		°C
STORAGE TEMPERATURE	-40<+100	-40<+100		°C



PILOT LIGHT



LENS



REMARKS:

- Dimensions are in inches(mm).
- The lens is clear-tinted with a fresnel pattern.
- This device is immune to peak noise current of 1mA.
- Caution: GaIn LEDs are class 1 ESD sensitive (MIL-STD-1686). Exceeding absolute maximum ratings may cause damage to, or possibly result in catastrophic failure of these devices. Use appropriate ESD precautions during handling and operation.
- For white and warm-white LED chromaticity coordinate ranges, see drawings #502590 and #503841 respectively.
- Install lamp into pilot light before shipping.

MID/WEST COMPANY, LLC

Jeff Roberts
307 Merlin Drive
Weldon Spring, MO 63304
636-477-9466 Fax: 636-477-9467
jell@midwestcoled.com
www.midwestcoled.com

Bob McClanahan
1213 Telford Drive
Liberty, MO 64068
816-792-8275 Cell: 816-616-8214
mmcclanahan@KC.RR.com
www.midwestcoled.com

48V Direct Line Voltage 16mm Pilot Light Socket w/ LED

(LED lamp rated to 52V maximum input voltage)

MWPLS16-X48-X

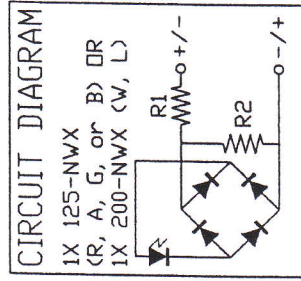
ELECTRO-OPTICAL CHARACTERISTICS

@ T_a = 25°C

SYM	PARAMETER	X = LED COLOR					UNIT
		RED	AMBER	GREEN	BLUE	WHITE	
I _v	TYP. LUMINOUS INTENSITY W/O LENS @ I _f =20mA	2180	2180	2300	700	2500	1800 mcd
V _o	OPERATING VOLTAGE RANGE	48	48	48	48	48	48 V
I _f	TYP. FORWARD CURRENT @ V _f =48V	10.4~10.9					9.0~9.6 mA
I _{max}	MAX. FORWARD CURRENT @ V _f =52V	12.0	12.0	10.5	10.5	10.5	10.5 mA
V _{br}	REVERSE BREAKDOWN @ I _r =100μA	-	-	-	-	-	- V
λ _{pk}	PEAK WAVELENGTH	634	592	520	465	-	- nm
λ _d	DOMINANT WAVELENGTH	629	590	525	470	-	- nm

ABSOLUTE MAX. RATINGS T_a=25°C

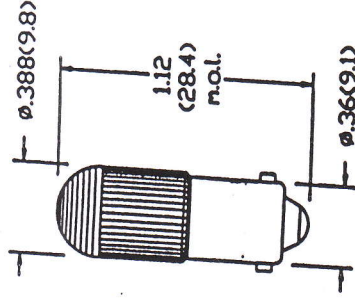
PARAMETER	VALUE	UNIT
POWER DISSIPATION	624	546 mW
DERATE/°C >T _a	9.4	8.2 mW
OPERATING VOLTAGE	52	52 V
OPERATING TEMPERATURE	-40<+100	-30<+85 °C
STORAGE TEMPERATURE	-40<+100	-40<+100 °C



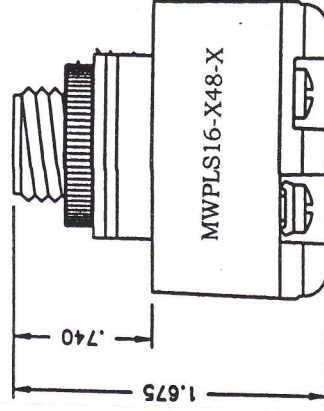
REMARKS:

- Dimensions are in inches(mm).
- The lens is clear-tinted with a fresnel pattern.
- This device is immune to peak noise current of 1mA.
- Caution: GaIn LEDs are class 1 ESD sensitive (MIL-STD-1686). Exceeding absolute maximum ratings may cause damage to, or possibly result in catastrophic failure of these devices. Use appropriate ESD precautions during handling and operation.
- For white and warm-white LED chromaticity coordinate ranges, see drawings #502590 and #503841 respectively.
- Install lamp into pilot light before shipping.

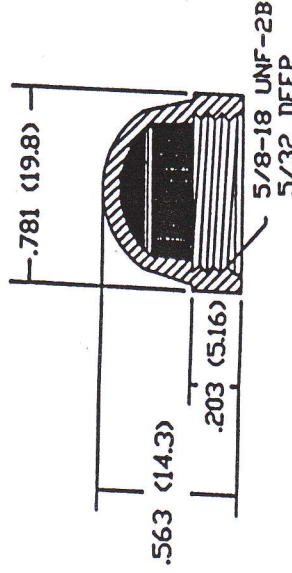
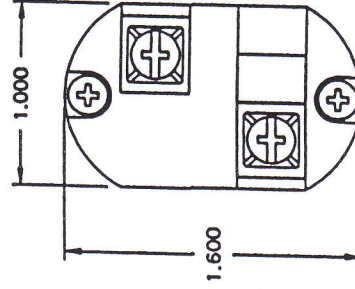
LAMP
DDP
48MBLS



PILOT LIGHT



LENS



FRESNEL LENS ON
INSIDE SURFACE

MID/WEST COMPANY, LLC

Jeff Roberts
307 Merlin Drive
Weldon Spring, MO 63304
636-477-9466 Fax: 636-477-9467
jefl@midwestcoled.com
www.midwestcoled.com

Bob McClanahan
1213 Telford Drive
Liberty, MO 64068
816-792-8275 Cell: 816-616-8214
mmcclanahan@KC.RR.com
www.midwestcoled.com

24V Direct Line Voltage 16mm Pilot Light Socket w/ LED

(LED lamp rated to 26V maximum input voltage)

MWPLS16-X24-X

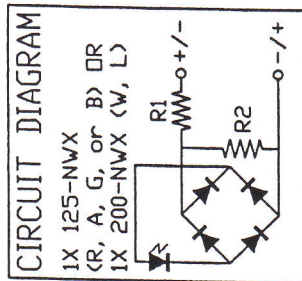
ELECTRO-OPTICAL CHARACTERISTICS

@ Ta = 25°C

SYM	PARAMETER	X = LED COLOR					UNIT
		RED	AMBER	GREEN	BLUE	WHITE	
I _v	TYP. LUMINOUS INTENSITY V/O LENS @ If=20mA	2180	2180	2300	700	2500	1800 mcd
V _o	OPERATING VOLTAGE RANGE	24	24	24	24	24	24 V
I _f	TYP. FORWARD CURRENT @ Vf=24V	16.5~17.6					mA
I _{mx}	MAX. FORWARD CURRENT @ Vf=26V	19.5	19.5	17.0	17.0	17.0	17.0 mA
V _{br}	REVERSE BREAKDOWN @ If=100µA	-	-	-	-	-	- V
λ _{pk}	PEAK WAVELENGTH	634	592	520	465	-	nm
λ _d	DOMINANT WAVELENGTH	629	590	525	470	-	nm

ABSOLUTE MAX. RATINGS Ta=25°C

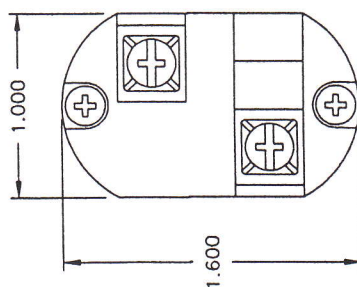
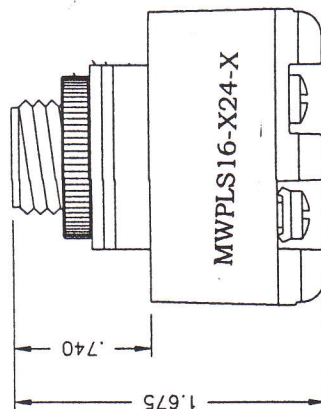
PARAMETER	VALUE		UNIT
	R & A	G, B, V, L	
POWER DISSIPATION	507	442	mW
DERATE/°C >Ta	7.6	6.6	mW
OPERATING VOLTAGE	26	26	V
OPERATING TEMPERATURE	-40<+100	-30<+85	°C
STORAGE TEMPERATURE	-40<+100	-40<+100	°C



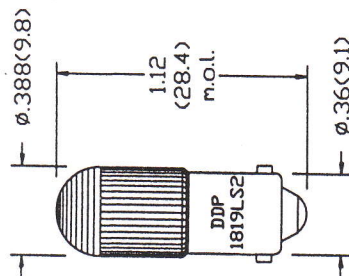
REMARKS:

- Dimensions are in inches(mm).
- The lens is clear-tinted with a fresnel pattern.
- This device is immune to peak noise current of 3mA.
- Caution: GaInN LEDs are class 1 ESD sensitive (MIL-STD-1686). Exceeding absolute maximum ratings may cause damage to, or possibly result in catastrophic failure of these devices. Use appropriate ESD precautions during handling and operation.
- For white and warm-white LED chromaticity coordinate ranges, see drawings #502590 and #503841 respectively.
- Install lamp into pilot light before shipping.

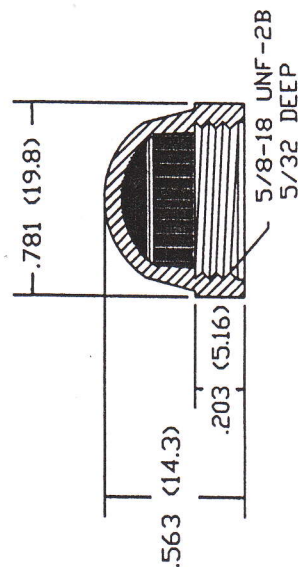
PILOT LIGHT



LAMP



LENS



FRESNEL LENS ON
INSIDE SURFACE

MID/WEST COMPANY, LLC

Jeff Roberts
307 Merlin Drive
Weldon Spring, MO 63304
636-477-9466 Fax: 636-477-9467
jeff@midwestcoled.com
www.midwestcoled.com

Bob McClanahan
1213 Telford Drive
Liberty, MO 64068
816-792-8275 Cell: 816-616-8214
mmeclanahan@KC.RR.com
www.midwestcoled.com