

LENSE MOUNTS FOR 3mm & 5mm LEDs



U.S. & Foreign Pat. Pend.

SPECIFICATIONS

MATERIAL: Lens - Polycarbonate; Spacer - Polypropylene. (U.L. Listed Materials).

DESIGN: Standard and low profile lenses with fresnel rings and striated lines. CLR 301 Low Profile Lens is available without fresnel rings.

MOUNTING: Mounts thru front of panel. Mounting holes should be deburred but not chamfered. 3mm (SML 190, SMB 200) mounts in a $.171 \pm .002$ (4.34mm) hole on 1/4" centers. Panel thickness for SML 190, 1/32" to 1/16"; SMB 200, 1/16" to 1/8". 5mm (CLF 280, CLB 300, CLR 301) mounts in a $.250 \pm .002$ (6.35mm) hole on 3/8" centers. Panel thickness for CLF 280, 1/16" to 1/8"; CLB 300 and CLR 301, 1/32" to 1/4"; for panels less than 3/16", use SPC 125 spacer. Lens retaining ring - available for added security (RNG 190, 3mm & RNG 268, 5mm)

ORDERING CODES

CLF 280 RTP

MODEL _____ COLOR _____

SML 190 (3mm) Std. Hgt.
SMB 200 (3mm) L/Profile
CLF 280 (5mm) Std. Hgt.
CLB 300 (5mm) L/Profile
CLR 301 (5mm) L/P Plain
SPC 125 (Spacer for CLB 300 and CLR 301)

RTP Red Transparent
ATP Amber Transparent
GTP Green Transparent
BTP Blue Transparent
YTP Yellow Transparent
CTP Clear Transparent

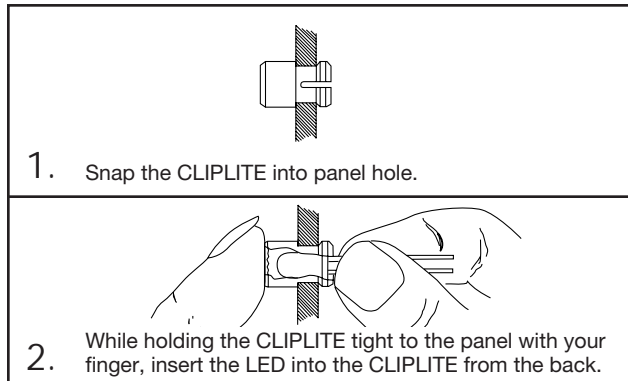
VISIBILITY – CLIPLITE produces up to 180 degrees of viewing angle using standard 3mm and 5mm LEDs.

BRIGHTNESS – CLIPLITE utilizes striated lines and fresnel rings to increase apparent brightness up to 125% and viewing angle up to 180 degrees with either diffused or nondiffused LEDs. A low profile lens without rings or lines is available for direct sunlight applications.

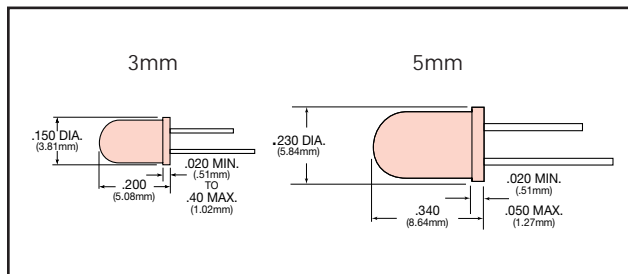
PROTECTION – CLIPLITE helps prevent IC failures caused by electrostatic discharge (ESD). Simply walking across a carpet can generate 10,000 volts. Introduction of this ESD thru an exposed panel mounted LED is capable of damaging or destroying a semiconductor. A CLIPLITE mounted LED helps guard components from ESD up to 16 kv while affording the LED physical protection.

INSTALLATION – CLIPLITE, standard or low profile, requires no assembly tools; just snap into a panel opening and insert LED. Cost effective operation is complete in only 6 seconds.

SIMPLE TWO-STEP INSTALLATION

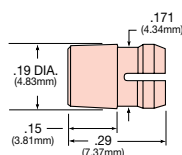


RECOMMENDED LEDs

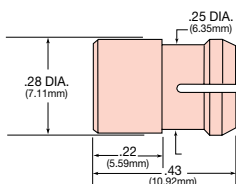


OUTLINE DRAWINGS

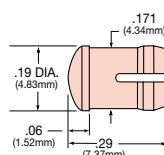
SML 190 (3mm)



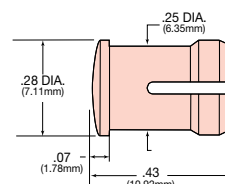
CLF 280 (5mm)



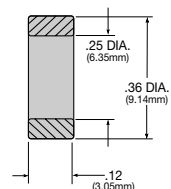
SMB 200 (3mm)



CLB 300/CLR 301 (5mm)

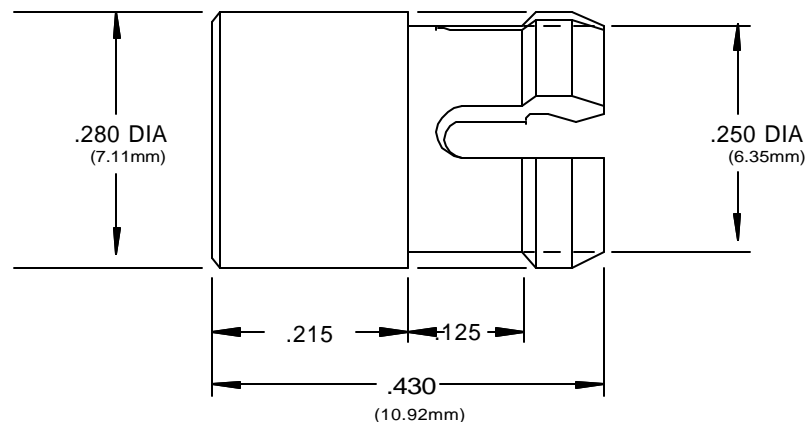
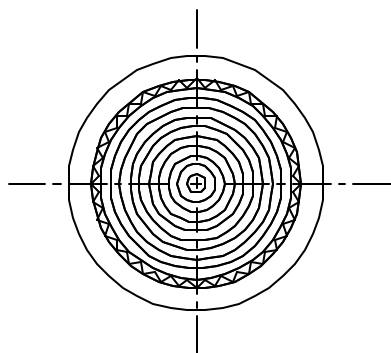


SPC 125 (5mm)

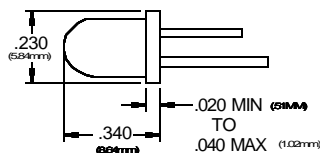




ACTUAL SIZE



RECOMMENDED LED
SIZE T-1 3/4



ORDERING CODES

MODEL CLF 280 RTP

COLOR _____

RTP Red Transparent BTP Blue Transparent
 ATP Amber Transparent YTP Yellow Transparent
 GTP Green Transparent CTP Clear Transparent

NOTES:

Material: Polycarbonate
 UL Rating: "Thermoplastic material used on a secondary circuit".

Design: Low profile lens using fresnel rings and striated lines.

Mounting: Mounts thru the front of panel. Mounting holes should be deburred but not chamfered.

Hole size - .250 ±.002 (6.35mm) hole on 3/8" centers
 Panel thickness 1/16" to 1/4"

For panel less than 3/16", SPC spacer is available
 Standard metal or plastic washer can be used to increase panel thickness if necessary.

U.S. & Foreign Pat. Issued & Pend.

REVISIONS			
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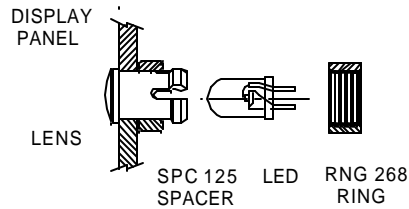
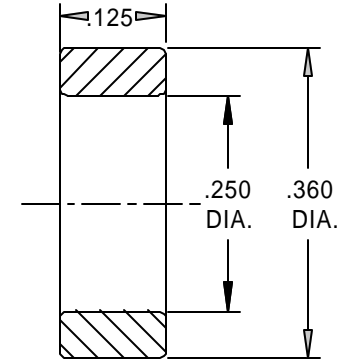
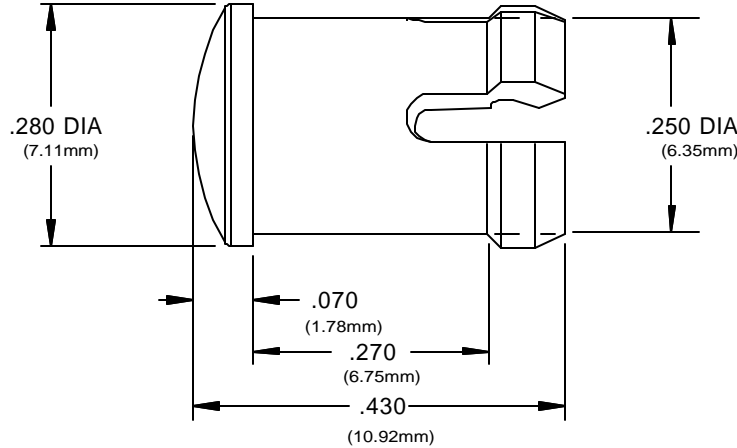
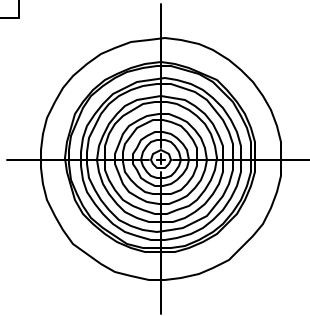
CLIPLITE[®] CLF 280

VCC VISUAL COMMUNICATIONS COMPANY, INC.
 7920-F Arjons Drive San Diego, California 92126 U.S.A.
 Phone (858) 549-6900 Fax (858) 549-3520 e-mail vccsales@vcclite.com

TOLERANCES	SCALE	5 X	DATE	10/25/95	DRAWING NO.
DECIMAL ±.010	DIAMETER	.003 TIR	DRAWN BY	JMS	CLF280A
ANGLE ± 30'	RADII	.008 Max	CHK'D		

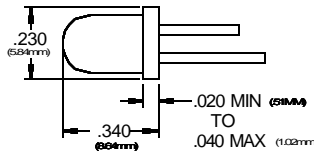


ACTUAL SIZE



ASSEMBLY
 Insert lens thru a .250" hole * for thin panels, slide spacer on back of lense * insert LED into lense * locking ring for additional security only.

RECOMMENDED LED SIZE T-1 3/4



ORDERING CODES

MODEL CLB 300 RTP
 COLOR _____

RTP Red Transparent BTP Blue Transparent
 ATP Amber Transparent YTP Yellow Transparent
 GTP Green Transparent CTP Clear Transparent

NOTES:

Material: Polycarbonate
 UL Rating: "Thermoplastic material used on a secondary circuit".

Design: Low profile lens using fresnel rings and striated lines.

Mounting: Mounts thru the front of panel. Mounting holes should be deburred but not chamfered.
 Hole size - .250 ±.002 (6.35mm) hole on 3/8" centers
 Panel thickness 1/16" to 1/4"

For panel less than 3/16", SPC spacer is available
 Standard metal or plastic washer can be used to increase panel thickness if necessary.

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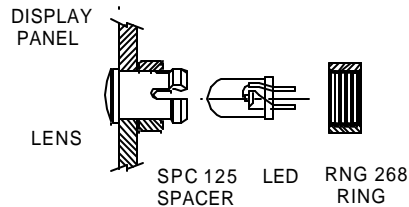
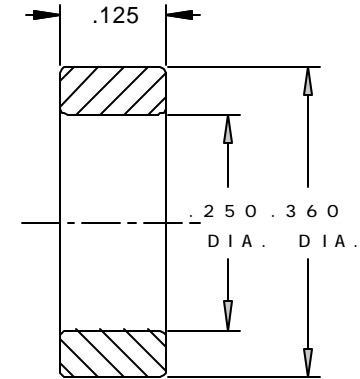
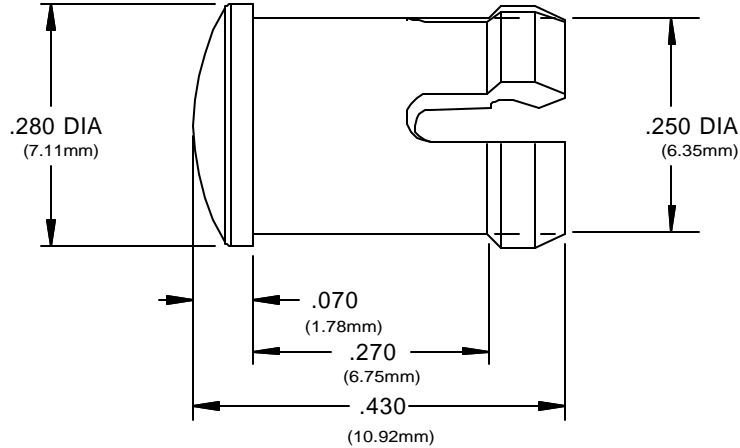
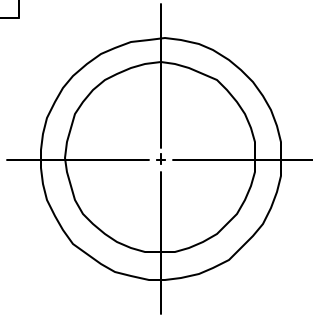
CLIPLITE[®] CLB 300

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TOLERANCES	SCALE	5 X	DATE	10/25/95	DRAWING NO.
DECIMAL ±.010	DIAMETER	.003 TIR	DRAWN BY	JMS	CLB300A
ANGLE ± 30'	RADII	.008 Max	CHK'D		



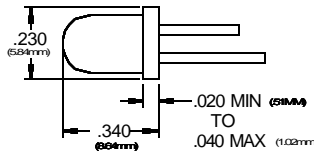
ACTUAL SIZE



ASSEMBLY

Insert lens thru a .250" hole * for thin panels, slide spacer on back of lense * insert LED into lense * locking ring for additional security only.

RECOMMENDED LED SIZE T-1 3/4



ORDERING CODES

MODEL CLR 301 RTP
 COLOR _____

RTP Red Transparent BTP Blue Transparent
 ATP Amber Transparent YTP Yellow Transparent
 GTP Green Transparent CTP Clear Transparent

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CLIPLITE® CLR 301

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DECIMAL ±.010	DIAMETER	.003 TIR	DRAWN BY	JMS	CLR301A
ANGLE ± 30'	RADII	.008 Max	CHK'D		