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CLIPLITE®

VISUAL COMMUNICATIONS COMPANY, INC.
7920-F Arjons Dr., San Diego, CA 92126
In CA (858) 549-6900 (800) 522-5546
FAX (858) 549-3520 www.vcclite.com

LENSE MOUNTS FOR 3mm & 5mm LEDs



U.S. & Foreign Pat. Pend.

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 lense 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.

SPECIFICATIONS

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

DESIGN: Standard and low profile lenses with fresnel rings and striated lines. CLR 301 Low Profile Lense 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 ± .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 ± .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.
Lense retaining ring - available for added security (RNG 190, 3mm & RNG 268, 5mm)

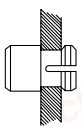
ORDERING CODES

CLF 280 RTP

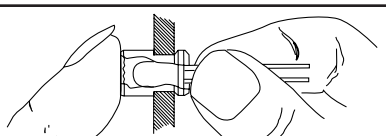
MODEL — COLOR

MODEL		COLOR	
SML 190 (3mm) Std. Hgt.		RTP	Red Transparent
SMB 200 (3mm) L/Profile		ATP	Amber Transparent
CLF 280 (5mm) Std. Hgt.		GTP	Green Transparent
CLB 300 (5mm) L/Profile		BTP	Blue Transparent
CLR 301 (5mm) L/P Plain		YTP	Yellow Transparent
SPC 125 (Spacer for CLB 300 and CLR 301)		CTP	Clear Transparent

SIMPLE TWO-STEP INSTALLATION

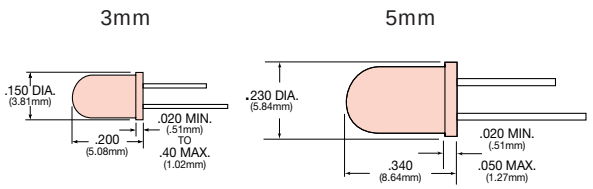


1. Snap the CLIPLITE into panel hole.

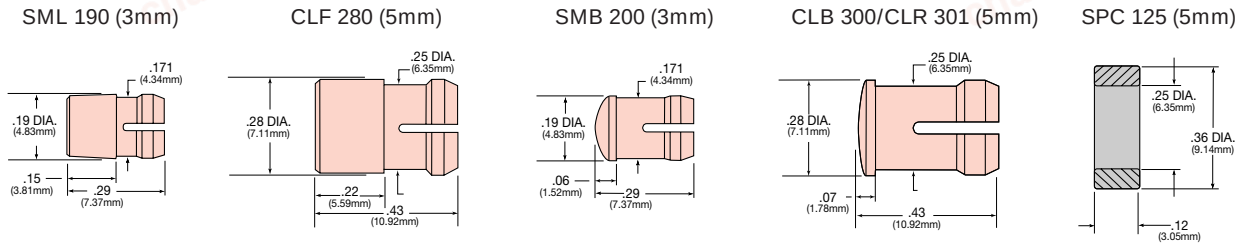


2. While holding the CLIPLITE tight to the panel with your finger, insert the LED into the CLIPLITE from the back.

RECOMMENDED LEDs



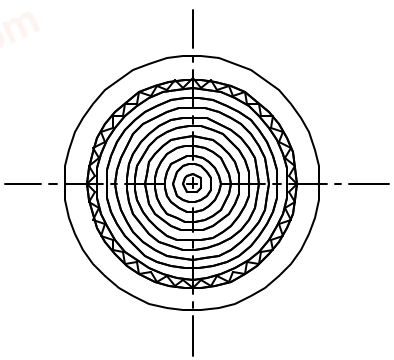
OUTLINE DRAWINGS

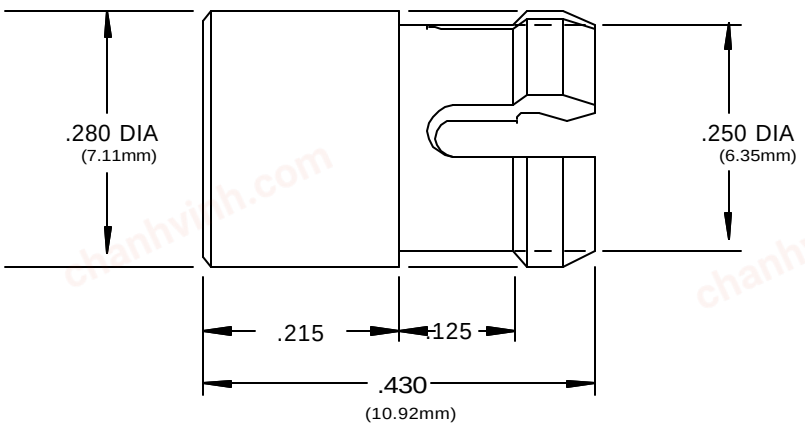


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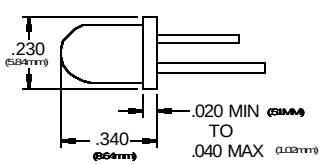


ACTUAL SIZE





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.

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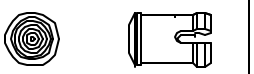
REVISIONS			
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CLIPLITE® CLF 280

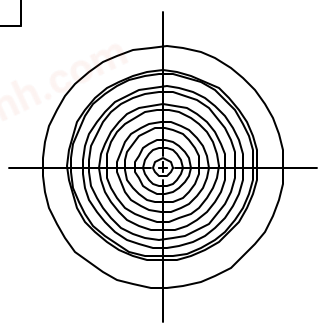
VCC VISUAL COMMUNICATIONS COMPANY, INC.
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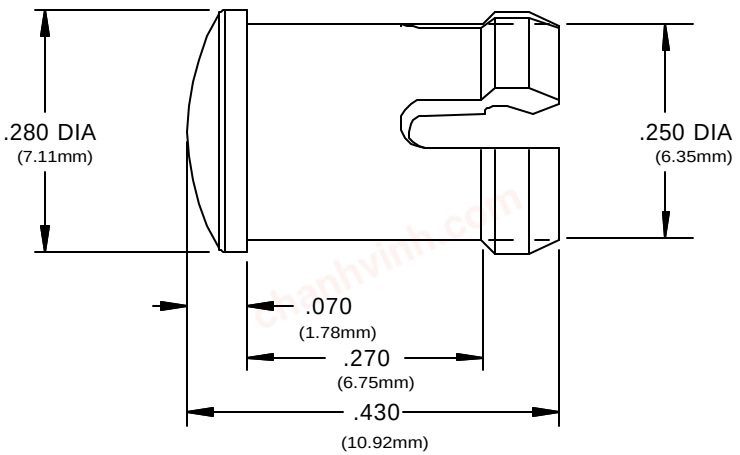
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ANGLE	± 30'	RADII	.008 Max	CHK'D			

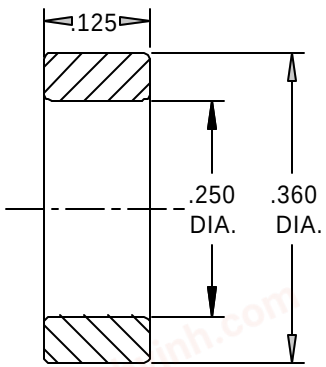
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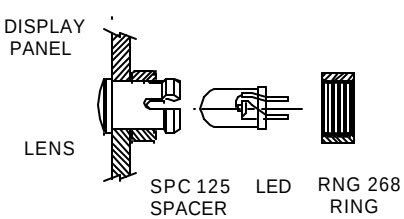


ACTUAL SIZE



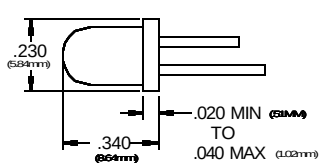






ASSEMBLY
Insert lense thru a .250" hole * for thin panels, slide spacer on back of lense * insert LED into lense * locking ring for additional security only.

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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REVISIONS

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CLIPLITE® CLB 300

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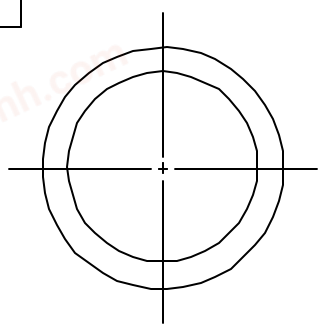
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ANGLE	± 30'	RADII	.008 Max	CHK'D	

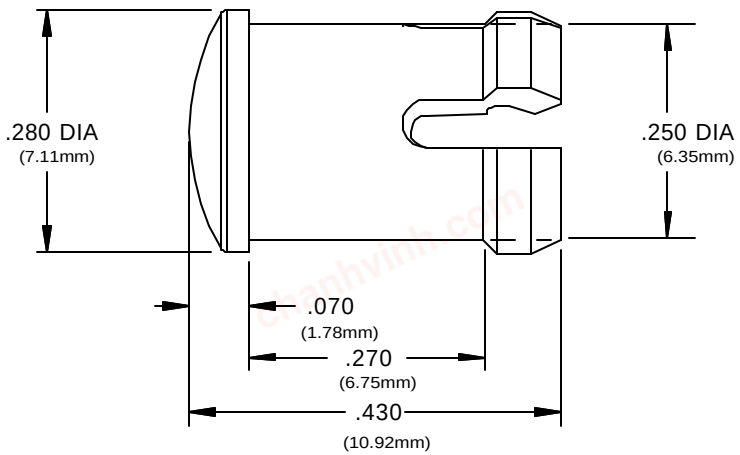
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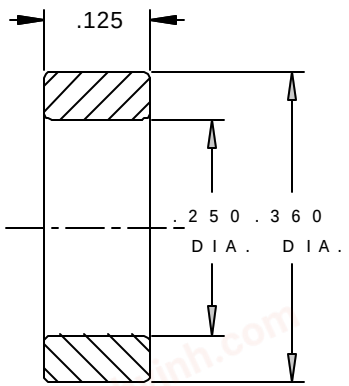
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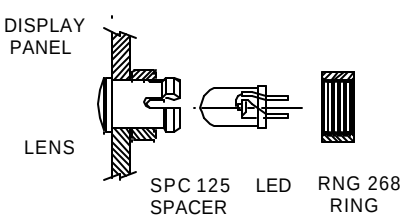


ACTUAL SIZE



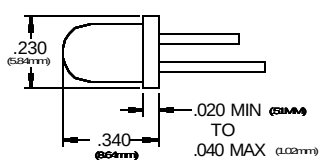






ASSEMBLY
Insert lense thru a .250" hole * for thin panels, slide spacer on back of lense * insert LED into lense * locking ring for additional security only.

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

NOTES:

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

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

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Hole size - .250 ±.002 (6.35mm) hole on 3/8" centers
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TOLERANCES		SCALE	5 X	DATE	10/25/95
DECIMAL	±.010	DIAMETER	.003 TIR	DRAWN BY	JMS
ANGLE	± 30'	RADII	.008 Max	CHK'D	

DRAWING NO. CLR301A