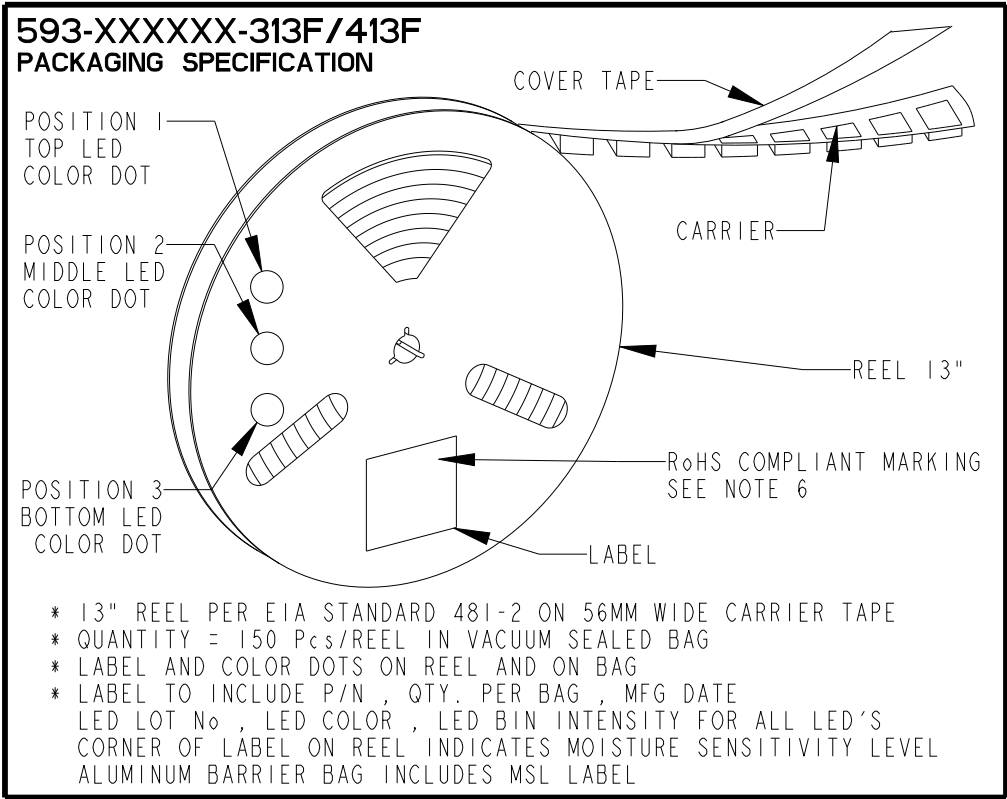
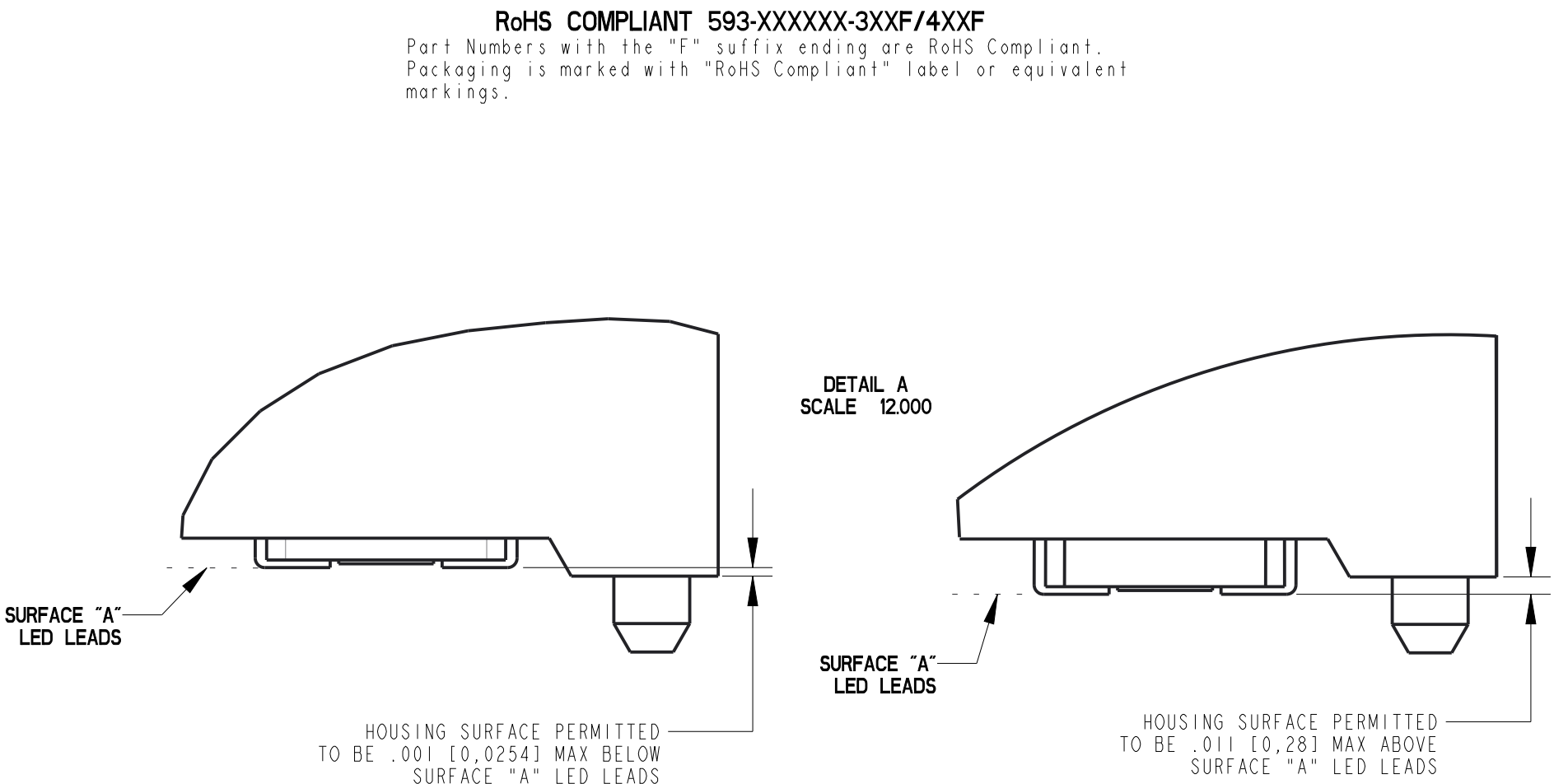


| PART NUMBER     | POSITION 1       | POSITION 2       | POSITION 3       | PAD LAYOUT REFERENCE |
|-----------------|------------------|------------------|------------------|----------------------|
| 593-101010-313F | RED 2mA          | RED 2mA          | RED 2mA          | FIG. 1               |
| 593-131313-313F | GREEN 2mA        | GREEN 2mA        | GREEN 2mA        | FIG. 1               |
| 593-141414-313F | YELLOW 2mA       | YELLOW 2mA       | YELLOW 2mA       | FIG. 1               |
| 593-151515-313F | ORANGE 2mA       | ORANGE 2mA       | ORANGE 2mA       | FIG. 1               |
| 593-202326-413F | RED              | GREEN            | BLUE             | FIG. 1               |
| 593-212226-413F | AlGaAs RED       | GREEN            | BLUE             | FIG. 1               |
| 593-232627-413F | GREEN            | BLUE             | AlInGaP YELLOW   | FIG. 1               |
| 593-262626-413F | BLUE             | BLUE             | BLUE             | FIG. 1               |
| 593-272727-313F | AlInGaP YELLOW   | AlInGaP YELLOW   | AlInGaP YELLOW   | FIG. 1               |
| 593-282828-413F | WHITE            | WHITE            | WHITE            | FIG. 1               |
| 593-292727-313F | InGaN GREEN      | AlInGaP YELLOW   | AlInGaP YELLOW   | FIG. 1               |
| 593-292929-313F | InGaN GREEN      | InGaN GREEN      | InGaN GREEN      | FIG. 1               |
| 593-303030-313F | SUPER RED/GREEN  | SUPER RED/GREEN  | SUPER RED/GREEN  | FIG. 2               |
| 593-303126-413F | SUPER RED/GREEN  | YELLOW/GREEN     | BLUE             | FIG. 1 & FIG. 2      |
| 593-313131-313F | YELLOW/GREEN     | YELLOW/GREEN     | YELLOW/GREEN     | FIG. 2               |
| 593-323232-313F | SUPER RED/YELLOW | SUPER RED/YELLOW | SUPER RED/YELLOW | FIG. 2               |
| 593-333321-313F | YELLOW/GRN InGAN | YELLOW/GRN InGAN | RED              | FIG. 1 & FIG. 2      |
| 593-333333-313F | YELLOW/GRN InGAN | YELLOW/GRN InGAN | YELLOW/GRN InGAN | FIG. 2               |
| 593-373321-313F | RED/GREEN/BLUE   | YELLOW/GRN InGAN | RED              | FIG. 1 & FIG. 2      |
| 593-402627-413F | TRUE GREEN       | BLUE             | AlInGaP YELLOW   | FIG. 1               |



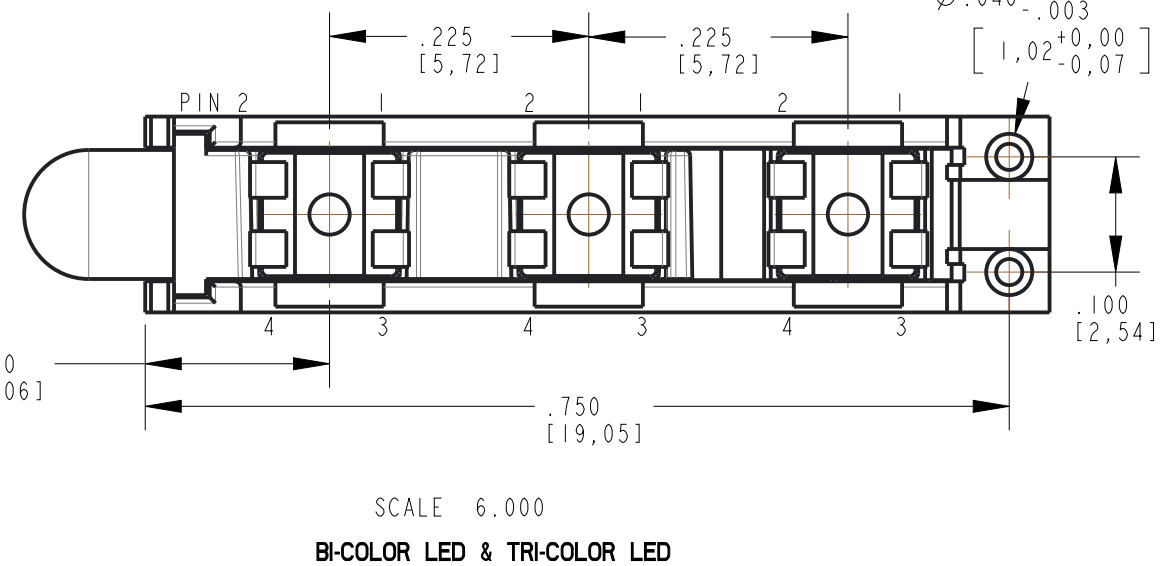
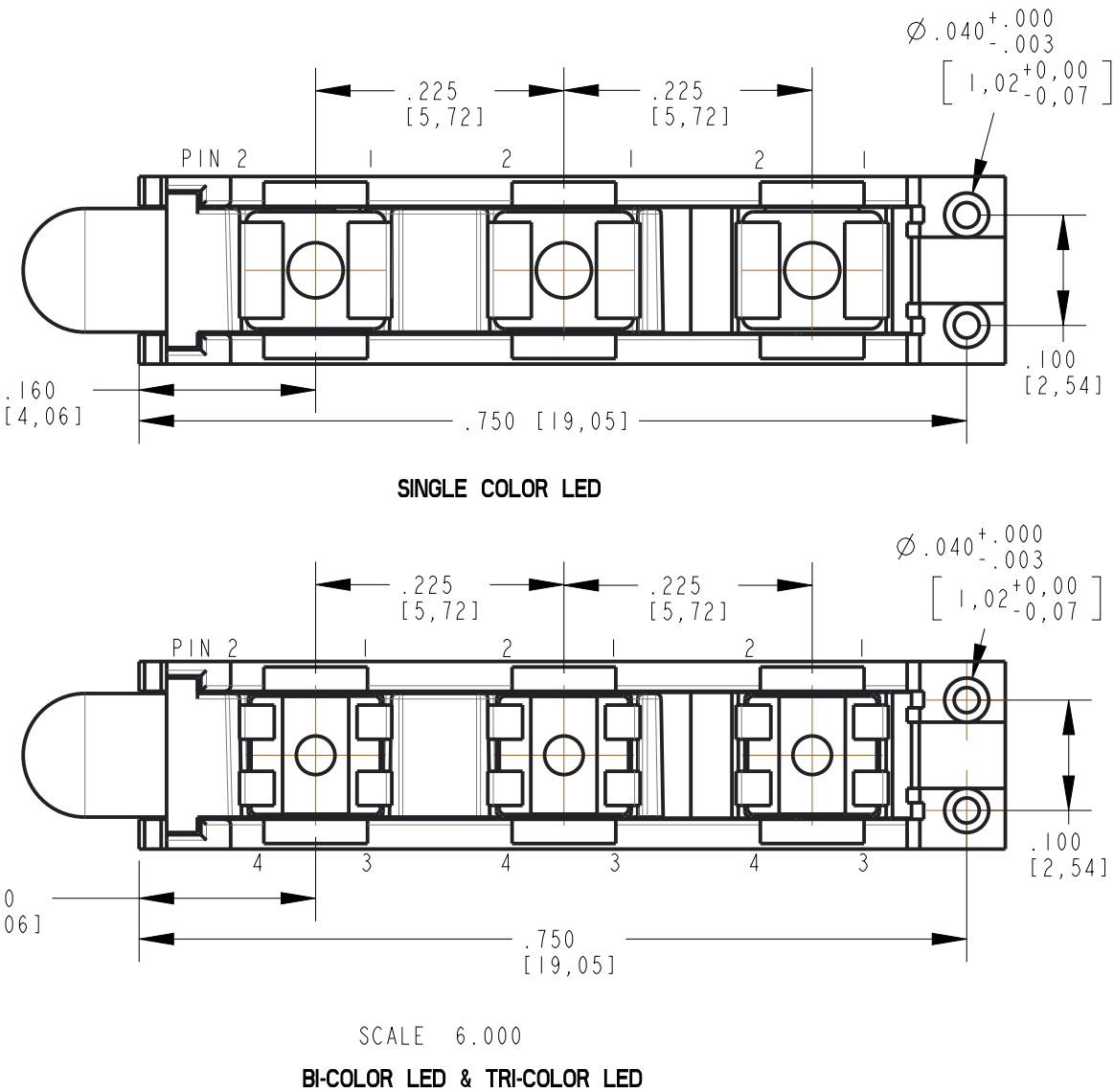
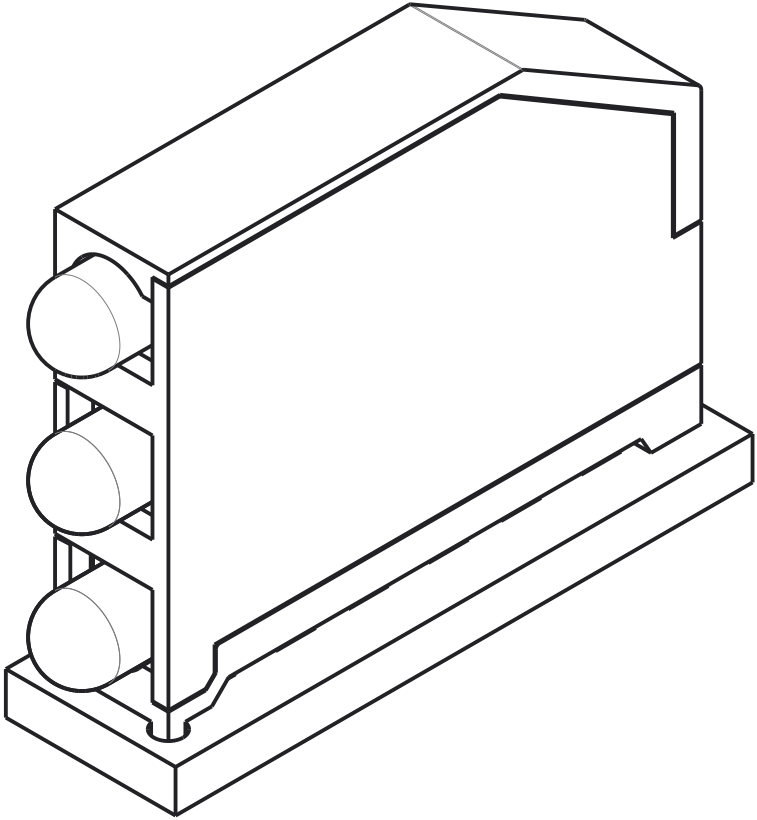
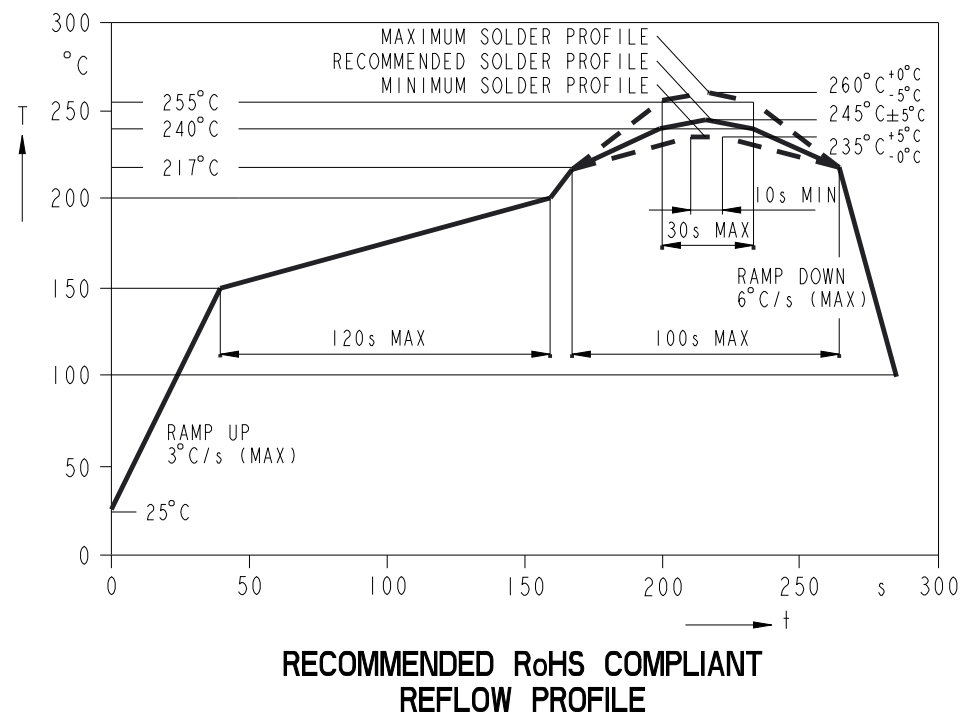
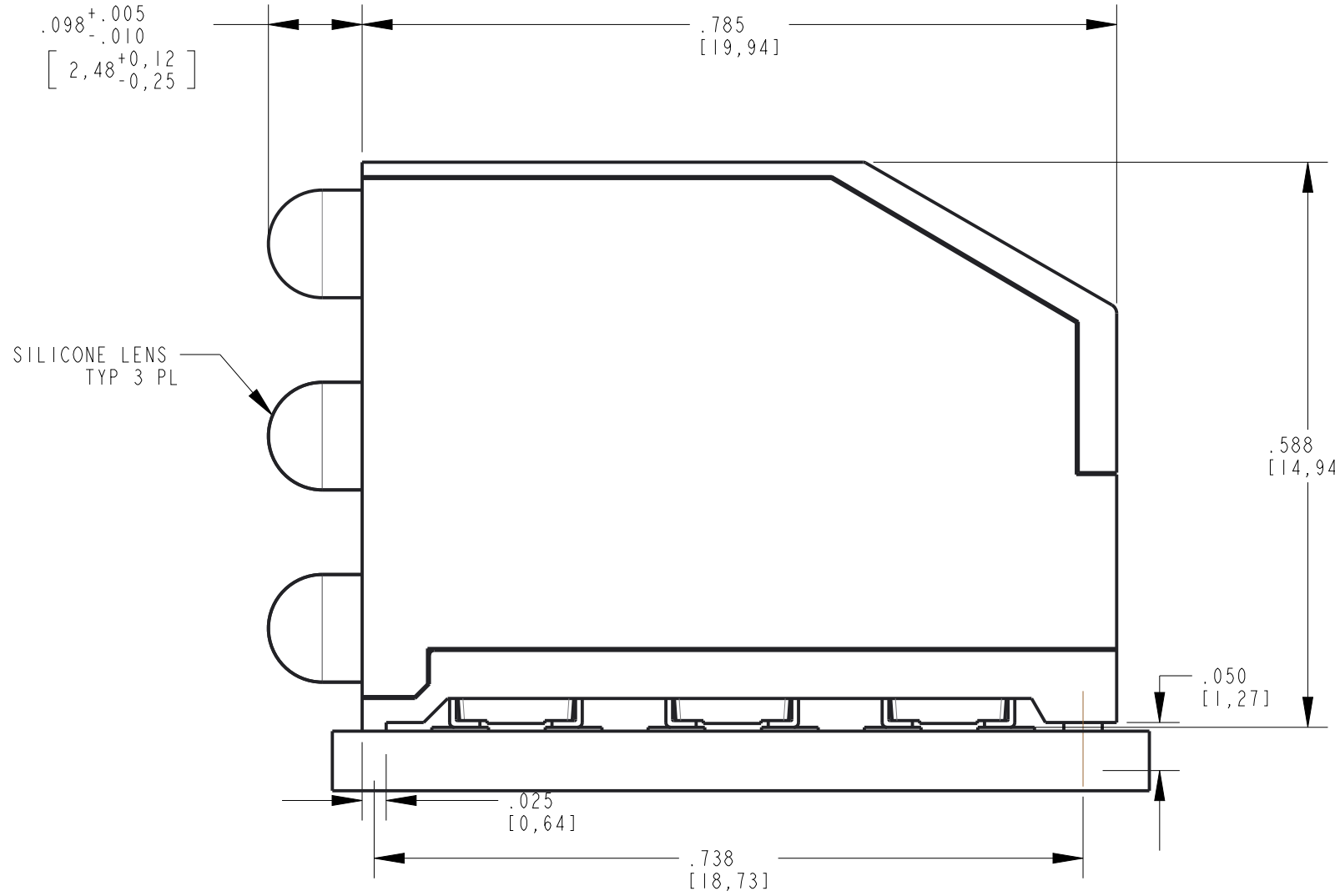
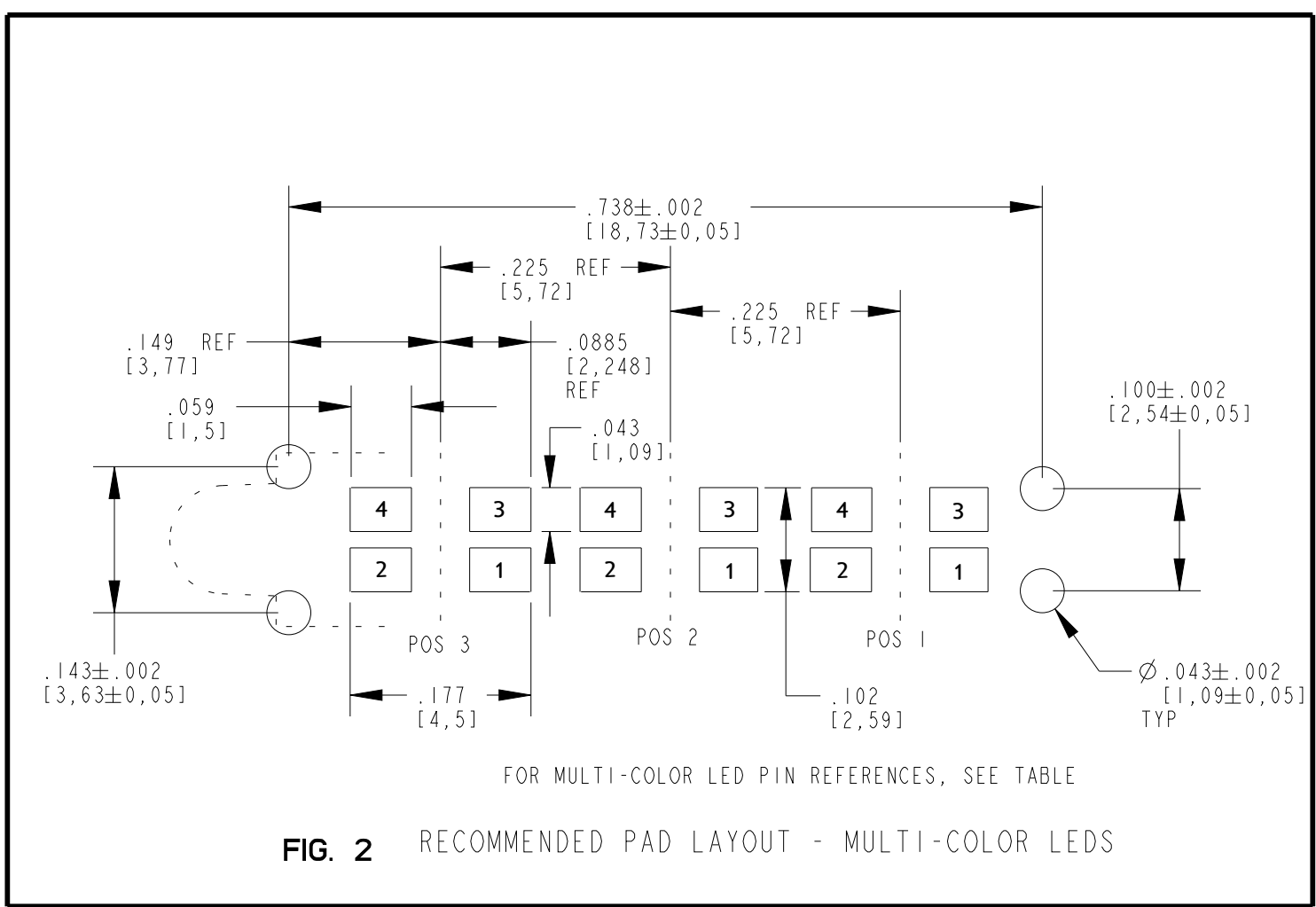
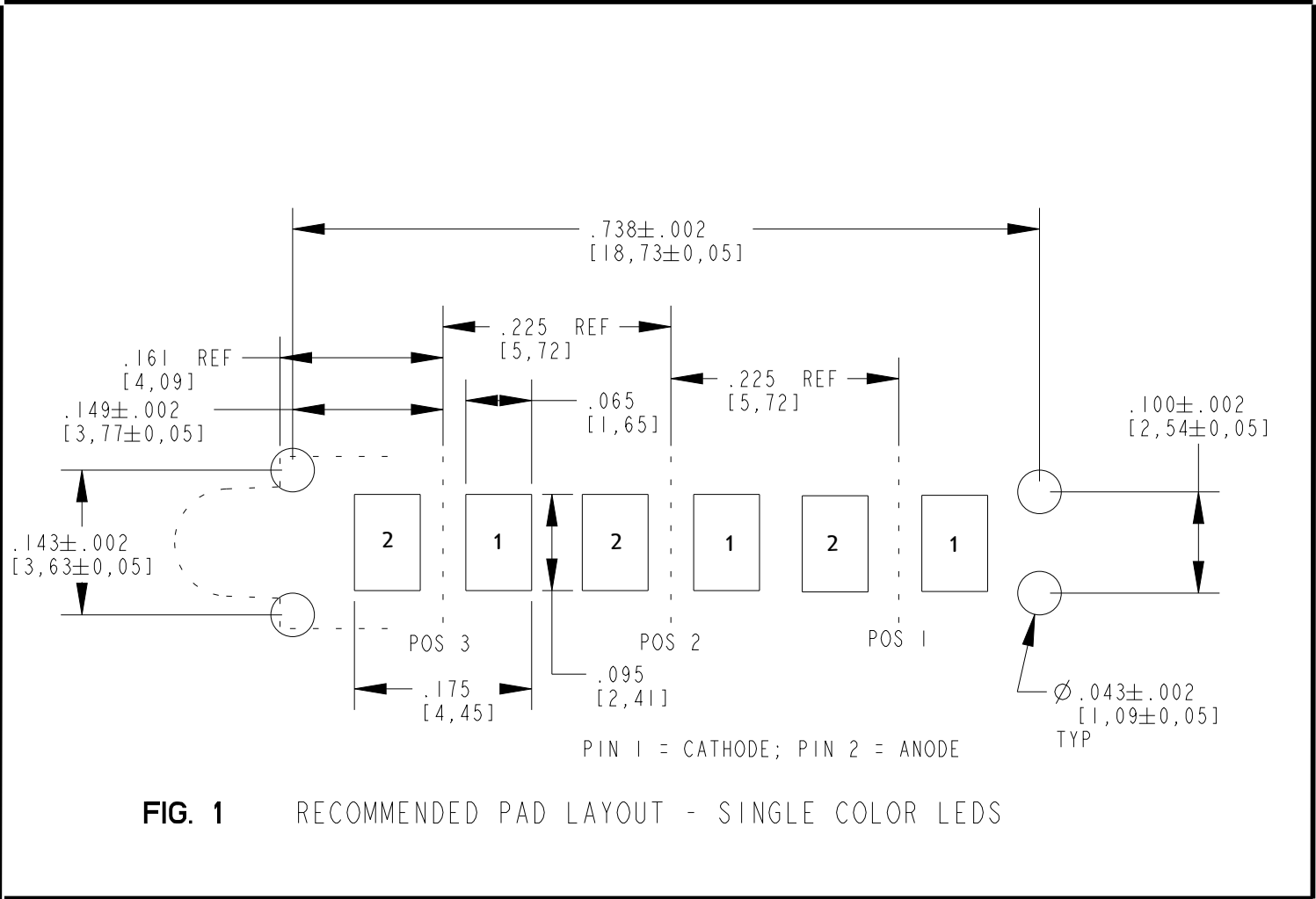
| MULTI-COLOR LED PIN REFERENCES |                |              |               |                |
|--------------------------------|----------------|--------------|---------------|----------------|
| LED COLOR                      | PIN 1          | PIN 2        | PIN 3         | PIN 4          |
| R/Y BI-COLOR                   | RED CATHODE    | RED ANODE    | YELLOW ANODE  | YELLOW CATHODE |
| Y/G BI-COLOR                   | YELLOW CATHODE | YELLOW ANODE | GREEN ANODE   | GREEN CATHODE  |
| R/G BI-COLOR                   | RED CATHODE    | RED ANODE    | GREEN ANODE   | GREEN CATHODE  |
| R/G/B TRI-COLOR                | RED CATHODE    | COMMON ANODE | GREEN CATHODE | BLUE CATHODE   |



| REV | REVISIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DRN | APP | DATE     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|----------|
| A   | NEW RELEASE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BP  | NO  | 11-6-17  |
| B   | ADDED P/N: 593-27-2020-313F & 593-27-2020-302F ON THE CHART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LD  | SK  | 6-6-18   |
| C   | REVISED COLOR OF PART NUMBERS TO FOLLOW THE CHART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LD  | SK  | 6-21-18  |
| D   | ADDED A NOTE ON THE DWG TO INDICATE SILICONE LENS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LD  | NO  | 7-20-18  |
| E   | REMOVED P/N 593-272129-801F, 593-272129-802F, 593-272727-803F, 593-272727-804F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LD  | NO  | 7-23-18  |
| F   | ADDED P/N 593-223020-302F, 593-223020-313F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | LD  | NO  | 10-14-19 |
| G   | REMOVED ALL PART NUMBERS W/ 002F SUFFIX INCLUDING PART NUMBERS 593-202020-313F, 593-202024-313F, 593-202324-313F, 593-202326-313F, 593-203120-313F, 593-212121-313F, 593-212130-313F, 593-222222-313F, 593-222221-313F, 593-222721-313F, 593-223020-313F, 593-232323-313F, 593-232420-313F, 593-232424-313F, 593-232627-313F, 593-242320-313F, 593-242424-313F, 593-262626-313F, 593-272020-313F, 593-272129-313F, 593-272323-313F, 593-282828-313F, 593-292627-313F, 593-292721-313F, 593-312020-313F, 593-303126-313F, 593-353535-313F, ADDED PART NUMBERS 593-202326-413F, 593-212226-413F, 593-232627-413F, 593-262626-413F, 593-282828-413F, 593-303126-413F, 593-402627-413F, 593-373321-313F, 593-333321-313F, 593-333333-313F, REVISED NOTE 1 & 7, UPDATED BLUE SPEC, ADDED COLOR CODE "40" IN THE CHART ADD COLOR CODE 33 AND 37 | LD  | CS  | 5-31-24  |

| OPERATING CHARACTERISTICS AT 25°C AMBIENT |                        |                           |                     |      |                          |     |                  |     |  |
|-------------------------------------------|------------------------|---------------------------|---------------------|------|--------------------------|-----|------------------|-----|--|
| COLOR CODE                                | COLOR                  | LUMINOUS INTENSITY        | FORWARD VOLTAGE (V) |      | DOMINANT WAVELENGTH (nm) |     |                  |     |  |
|                                           |                        | TYP                       | TEST COND           | TYP  | MAX                      | MIN | TYP              | MAX |  |
| 10                                        | RED 2mA                | 5 mcd @IF=2mA             | IF = 2mA            | 1.7  | 2.2                      | 624 | 630              | 636 |  |
| 13                                        | GREEN 2mA              | 4 mcd @IF=2mA             | IF = 2mA            | 1.7  | 2.2                      | 566 | 570              | 575 |  |
| 14                                        | YELLOW 2mA             | 4.3 mcd @IF=2mA           | IF = 2mA            | 1.7  | 2.2                      | 580 | 587              | 595 |  |
| 15                                        | ORANGE 2mA             | 7 mcd @IF=2mA             | IF = 2mA            | 1.7  | 2.2                      | 600 | 606              | 609 |  |
| 20                                        | RED                    | 6 mcd @IF=20mA            | IF = 10mA           | 2.0  | 2.5                      | 622 | 628              | 634 |  |
| 21                                        | AlGaAs RED             | 30 mcd @IF=10mA           | IF = 10mA           | 1.95 | 2.5                      | —   | 630              | —   |  |
| 22                                        | HI. INT. GREEN         | 10 mcd @IF=20mA           | IF = 10mA           | 2.0  | 2.5                      | 564 | 570              | 576 |  |
| 23                                        | GREEN                  | 9 mcd @IF=20mA            | IF = 10mA           | 2.0  | 2.5                      | 564 | 570              | 576 |  |
| 24                                        | YELLOW                 | 8 mcd @IF=20mA            | IF = 10mA           | 2.0  | 2.5                      | 580 | 587              | 595 |  |
| 26                                        | BLUE                   | 165 mcd @IF=20mA          | IF = 20mA           | 2.8  | 3.5                      | 465 | 470              | 475 |  |
| 27                                        | AlInGaP YELLOW         | 36 mcd @IF=20mA           | IF = 10mA           | 2.0  | 2.4                      | 580 | 587              | 595 |  |
| 28                                        | WHITE                  | 55 mcd @IF=10mA           | IF = 3mA            | 2.7  | 3.1                      | —   | X .281<br>Y .247 | —   |  |
| 29                                        | InGaN GREEN            | 213 mcd @IF=20mA          | IF = 20mA           | 3.7  | 4.3                      | —   | 525              | —   |  |
| 30                                        | RED/GREEN BI-COLOR     | RED 11 mcd @IF=10mA       | IF = 10mA           | 2.0  | 2.5                      | 622 | 628              | 634 |  |
|                                           | GREEN                  | 6 mcd @IF=10mA            | IF = 10mA           | 2.0  | 2.5                      | 564 | 570              | 576 |  |
| 31                                        | YELLOW/GREEN BI-COLOR  | YELLOW 13 mcd @IF=10mA    | IF = 10mA           | 2.0  | 2.5                      | 584 | 590              | 596 |  |
|                                           | GREEN                  | 6 mcd @IF=10mA            | IF = 10mA           | 2.0  | 2.5                      | 564 | 570              | 576 |  |
| 32                                        | RED/YELLOW BI-COLOR    | RED 34 mcd @IF=20mA       | IF = 20mA           | 2.0  | 2.3                      | 627 | 633              | 639 |  |
|                                           | YELLOW                 | 26 mcd @IF=20mA           | IF = 20mA           | 2.0  | 2.4                      | 580 | 587              | 595 |  |
| 33                                        | YELLOW/GREEN BI-COLOR  | YELLOW 125 mcd @IF = 10mA | IF = 20mA           | 2.1  | 2.4                      | 585 | 595              | —   |  |
|                                           | GREEN                  | 200 mcd @IF = 10mA        | IF = 20mA           | 3.1  | 3.4                      | 515 | 525              | —   |  |
| 35                                        | RED/GRN/BLUE TRI-COLOR | RED 45 mcd @IF=20mA       | IF = 20mA           | 1.9  | 2.4                      | —   | 626              | —   |  |
|                                           | GREEN                  | 114 mcd @IF=20mA          | IF = 20mA           | 3.4  | 4.05                     | 515 | 525              | 535 |  |
|                                           | BLUE                   | 25 mcd @IF=20mA           | IF = 20mA           | 3.4  | 4.05                     | 460 | 470              | 480 |  |
| 37                                        | RED/GRN/BLUE TRI-COLOR | RED 60 mcd @IF = 10mA     | IF = 10mA           | 2.1  | 2.4                      | 615 | 630              | —   |  |
|                                           | GREEN                  | 210 mcd @IF = 10mA        | IF = 10mA           | 3.2  | 3.6                      | 518 | 530              | —   |  |
|                                           | BLUE                   | 30 mcd @IF = 10mA         | IF = 10mA           | 3.2  | 3.6                      | 465 | 475              | —   |  |
| 40                                        | TRUE GREEN             | 300 mcd @IF = 20mA        | IF = 20mA           | 2.8  | 3.5                      | 520 | 525              | 530 |  |

- NOTES:
- PRODUCT P/N'S WITH "F" SUFFIX ENDING ARE RoHS COMPLIANT
  - STORAGE OF TAPED PARTS SHALL NOT EXCEED TWELVE (12) MONTHS AFTER WHICH RE-PACKAGING IS REQUIRED.
  - FRONT AND REAR TERMINALS OF EACH LED OF THE ASSEMBLY TO BE WITHIN .005 COPLANARITY.
  - A MOISTURE SENSITIVITY LEVEL LABEL PLACED ON BAG. CHECK CHART FOR PROPER LEVEL
  - \*\*\* CAUTION \*\*\* FOR PRODUCTS THAT ARE ESD SENSITIVE, OBSERVE PRECAUTIONS IN HANDLING ELECTROSTATIC SENSITIVE DEVICES. FOR EYE SAFETY DO NOT STARE DIRECTLY INTO THE LIGHT BEAM OF THESE LED DEVICES AT CLOSE RANGE.
  - THIS PRODUCT IS RoHS COMPLIANT. EACH BAG IS MARKED WITH RoHS COMPLIANT LABEL OR EQUIVALENT MARKINGS. LED MUST BE Pb FREE (RoHS COMPLIANT).
  - DIALIGHT PART NUMBERS:593-XXXXXX-313F/413F (REEL)



**ATTENTION:**  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

|                                                                                                                                                                                                                                         |                                            |              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------|--|
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| SCALE: 6.000                                                                                                                                                                                                                            | DRAWING NUMBER                             | REV          |  |
|                                                                                                                                                                                                                                         | C-18320                                    |              |  |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                                  | TITLE                                      |              |  |
| FRACTIONS: ±1/64                                                                                                                                                                                                                        | TRI-LEVEL PRISM                            |              |  |
| DECIMALS (.XX): ±.01                                                                                                                                                                                                                    | MATERIAL                                   |              |  |
| DECIMALS (.XXX): ±.005                                                                                                                                                                                                                  | RoHS COMPLIANT                             |              |  |
| DECIMALS (.XXXX): ±.0005                                                                                                                                                                                                                | 1501 ROUTE 34 SOUTH, FARMINGDALE, NJ 07724 |              |  |
| ANGLES: ±3°                                                                                                                                                                                                                             | 17321 919-3119                             |              |  |
| FINISH                                                                                                                                                                                                                                  | www.dialight.com                           |              |  |
| FSCM 83330                                                                                                                                                                                                                              | SHEET 1 OF 1                               | FAMILY TABLE |  |