

Features

- 1.8mm sized LEDs save space
- Housing material meets UL94V-0
- Facilitates PCB mounting
- Fast turn on/off time I.C. compatible
- Colors can be mixed in a single housing
- Solid-state, high shock/vibration resistant
- Single color or bicolor configurations
- LED operating life: 100,000+ hrs (10+ years)
- One piece housing
- Three-year warranty

Custom Options

(for qualified applications)

- Sunlight Visible Ultrabrights
- Low current (2mA) LEDs
- Special colors: Orange, Pure Green, Blue
- Infrareds 840nm, 880nm, 940nm
- Clear illuminator LEDs for backlighting

| Part Number | Emitted Color | Lens Color/ Type | Electrical-Optical Characteristics (Ta = 25°C) | | | | | View Angle 2θ _{1/2} | Figure |
|-------------|---------------|------------------|--|--------------------------|----------------------------|---------------------|--|------------------------------|--------|
| | | | I _f (mA) | I _v (mcd) typ | V _f (V) typ/max | λ _p (nm) | | | |

1.8mm Tri-Level Indicator LEDs

| | | | | | | | | | |
|-------|---------------|-------------|--------------|-----|---------|---------|-----|-----|---|
| | 31PCT070TR4 | RED | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 31PCT070TY4 | YELLOW | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 31PCT070TG4 | GREEN | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 31PCT070TWRG4 | RED | Milky White | 20 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | Milky White | 20 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 31PCT070TWYG4 | YELLOW | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | Milky White | 10 | 4.0 | 2.2/2.6 | 568 | 40° | | |

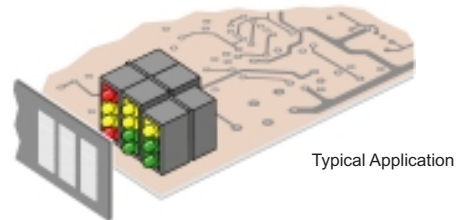
Bi-color LED Projection .075

1.8mm Quad-Level Indicator LEDs

| | | | | | | | | | |
|-------|---------------|-------------|--------------|-----|---------|---------|-----|-----|---|
| | 41PCT070TR4 | RED | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 2 |
| | 41PCT070TY4 | YELLOW | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 41PCT070TG4 | GREEN | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 41PCT070TWRG4 | RED | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | Milky White | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 41PCT070TWYG4 | YELLOW | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | Milky White | 10 | 4.0 | 2.2/2.6 | 568 | 40° | | |

Bicolor LED Projection .075

Custom Options: OEM large quantity requirements



Typical Application

Examples of part number ordering code

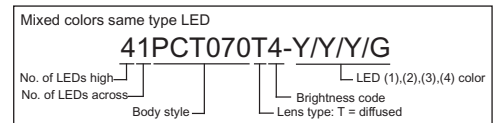
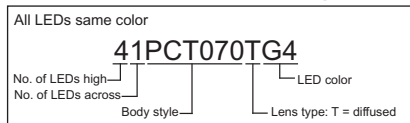


Figure 1. Tri-Level Indicator LEDs

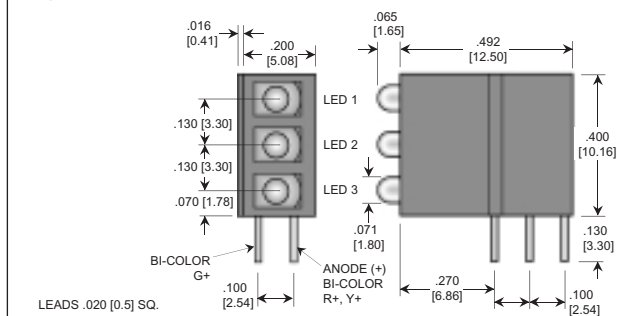
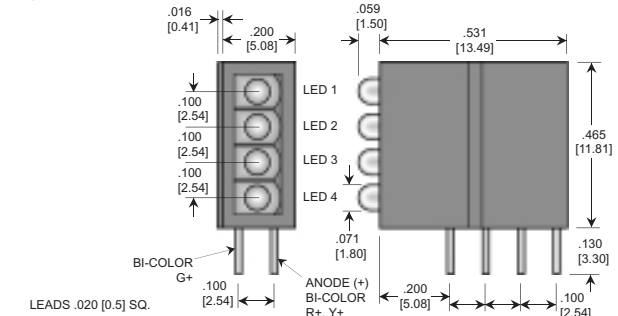


Figure 2. Quad-Level Indicator LEDs



Log # 125A pg1 Rev 07-2001



1.8mm Right-Angled PCB LEDs, 0.100" Centerline

| Part Number | Emitted Color | Lens Color/ Type | Electrical-Optical Characteristics (Ta = 25°C) | | | | View Angle 2θ _{1/2} | Figure |
|-------------|---------------|------------------|--|--------------------------|----------------------------|---------------------|------------------------------|--------|
| | | | I _f (mA) | I _v (mcd) typ | V _f (V) typ/max | λ _p (nm) | | |

1.8mm Right-Angle Indicator (2 LEDs)

| | | | | | | | | | |
|-------|---------------|--------|--------------|-----|---------|---------|-----|-----|---|
| | 12PCT070TR4 | RED | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 12PCT070TY4 | YELLOW | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 12PCT070TG4 | GREEN | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 12PCT070TWRG4 | RED | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 12PCT070TWYG4 | YELLOW | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | 10 | | 4.0 | 2.2/2.6 | 568 | 40° | | |

1.8mm Right-Angle Indicator (3 LEDs)

| | | | | | | | | | |
|-------|---------------|--------|--------------|-----|---------|---------|-----|-----|---|
| | 13PCT070TR4 | RED | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 13PCT070TY4 | YELLOW | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 13PCT070TG4 | GREEN | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 13PCT070TWRG4 | RED | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 13PCT070TWYG4 | YELLOW | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | 10 | | 4.0 | 2.2/2.6 | 568 | 40° | | |

1.8mm Right-Angle Indicator (4 LEDs)

| | | | | | | | | | |
|-------|---------------|--------|--------------|-----|---------|---------|-----|-----|---|
| | 14PCT070TR4 | RED | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 14PCT070TY4 | YELLOW | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 14PCT070TG4 | GREEN | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 14PCT070TWRG4 | RED | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 14PCT070TWYG4 | YELLOW | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | 10 | | 4.0 | 2.2/2.6 | 568 | 40° | | |

1.8mm Right-Angle Indicator (5 LEDs)

| | | | | | | | | | |
|-------|---------------|--------|--------------|-----|---------|---------|-----------------|-----------------|---|
| | 15PCT070TR4 | RED | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40 _i | 1 |
| | 15PCT070TY4 | YELLOW | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40 _i | |
| | 15PCT070TG4 | GREEN | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40 _i | |
| | 15PCT070TWRG4 | RED | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40 _i | |
| | | GREEN | | 10 | 4.0 | 2.2/2.6 | 568 | 40 _i | |
| | 15PCT070TWYG4 | YELLOW | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40 _i | |
| GREEN | | 10 | | 4.0 | 2.2/2.6 | 568 | 40 _i | | |

1.8mm Right-Angle Indicator (8 LEDs)

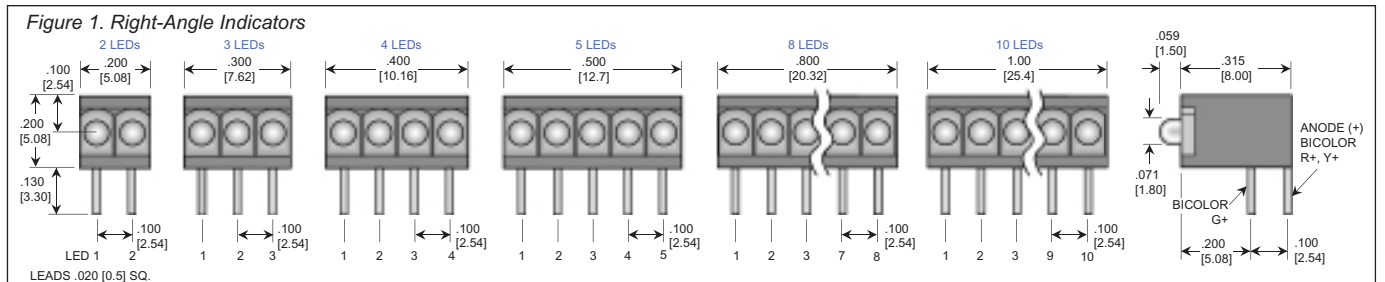
| | | | | | | | | | |
|-------|---------------|--------|--------------|-----|---------|---------|-----|-----|---|
| | 18PCT070TR4 | RED | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 18PCT070TY4 | YELLOW | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 18PCT070TG4 | GREEN | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 18PCT070TWRG4 | RED | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 18PCT070TWYG4 | YELLOW | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | 10 | | 4.0 | 2.2/2.6 | 568 | 40° | | |

1.8mm Right-Angle Indicator (10 LEDs)

| | | | | | | | | | |
|-------|----------------|--------|--------------|-----|---------|---------|-----|-----|---|
| | 110PCT070TR4 | RED | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 110PCT070TY4 | YELLOW | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 110PCT070TG4 | GREEN | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 110PCT070TWRG4 | RED | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 110PCT070TWYG4 | YELLOW | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | 10 | | 4.0 | 2.2/2.6 | 568 | 40° | | |

Custom Options: OEM large quantity requirements

Bicolor LED Projection .075



Log # 125A pg2 Rev 07-2001



1.8mm Vertical PCB LEDs, 0.100" Centerline

| Part Number | Emitted Color | Lens Color/ Type | Electrical-Optical Characteristics (Ta = 25°C) | | | | View Angle 2θ _{1/2} | Figure |
|-------------|---------------|------------------|--|--------------------------|----------------------------|---------------------|------------------------------|--------|
| | | | I _f (mA) | I _v (mcd) typ | V _f (V) typ/max | λ _p (nm) | | |

1.8mm Vertical Indicator (2 LEDs)

| | | | | | | | | | | |
|-------|---------------|--------|----|--------------|-----|---------|---------|-----|-----|---|
| | 12PCV070TR4 | RED | ● | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 12PCV070TY4 | YELLOW | ● | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 12PCV070TG4 | GREEN | ● | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 12PCV070TWRG4 | RED | ● | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | ● | | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 12PCV070TwyG4 | YELLOW | ● | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | ● | 10 | | 4.0 | 2.2/2.6 | 568 | 40° | | |

1.8mm Vertical Indicator (3 LEDs)

| | | | | | | | | | | |
|-------|---------------|--------|----|--------------|-----|---------|---------|-----|-----|---|
| | 13PCV070TR4 | RED | ● | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 13PCV070TY4 | YELLOW | ● | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 13PCV070TG4 | GREEN | ● | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 13PCV070TWRG4 | RED | ● | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | ● | | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 13PCV070TwyG4 | YELLOW | ● | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | ● | 10 | | 4.0 | 2.2/2.6 | 568 | 40° | | |

1.8mm Vertical Indicator (4 LEDs)

| | | | | | | | | | | |
|-------|---------------|--------|----|--------------|-----|---------|---------|-----|-----|---|
| | 14PCV070TR4 | RED | ● | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 14PCV070TY4 | YELLOW | ● | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 14PCV070TG4 | GREEN | ● | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 14PCV070TWRG4 | RED | ● | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | ● | | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 14PCV070TwyG4 | YELLOW | ● | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | ● | 10 | | 4.0 | 2.2/2.6 | 568 | 40° | | |

1.8mm Vertical Indicator (5 LEDs)

| | | | | | | | | | | |
|-------|---------------|--------|----|--------------|-----|---------|---------|-----|-----|---|
| | 15PCV070TR4 | RED | ● | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 15PCV070TY4 | YELLOW | ● | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 15PCV070TG4 | GREEN | ● | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 15PCV070TWRG4 | RED | ● | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | ● | | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 15PCV070TwyG4 | YELLOW | ● | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | ● | 10 | | 4.0 | 2.2/2.6 | 568 | 40° | | |

1.8mm Vertical Indicator (8 LEDs)

| | | | | | | | | | | |
|-------|---------------|--------|----|--------------|-----|---------|---------|-----|-----|---|
| | 18PCV070TR4 | RED | ● | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 18PCV070TY4 | YELLOW | ● | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 18PCV070TG4 | GREEN | ● | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 18PCV070TWRG4 | RED | ● | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | ● | | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 18PCV070TwyG4 | YELLOW | ● | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | ● | 10 | | 4.0 | 2.2/2.6 | 568 | 40° | | |

1.8mm Vertical Indicator (10 LEDs)

| | | | | | | | | | | |
|-------|----------------|--------|----|--------------|-----|---------|---------|-----|-----|---|
| | 110PCV070TR4 | RED | ● | RED Diffused | 10 | 12.5 | 2.0/2.6 | 625 | 40° | 1 |
| | 110PCV070TY4 | YELLOW | ● | YEL Diffused | 10 | 5.5 | 2.1/2.6 | 590 | 40° | |
| | 110PCV070TG4 | GREEN | ● | GRN Diffused | 10 | 5.5 | 2.2/2.6 | 565 | 40° | |
| | 110PCV070TWRG4 | RED | ● | Milky White | 10 | 4.0 | 2.0/2.6 | 635 | 40° | |
| | | GREEN | ● | | 10 | 4.0 | 2.2/2.6 | 568 | 40° | |
| | 110PCV070TwyG4 | YELLOW | ● | Milky White | 10 | 2.4 | 2.1/2.6 | 585 | 40° | |
| GREEN | | ● | 10 | | 4.0 | 2.2/2.6 | 568 | 40° | | |

Bicolor LED Projection .075

Custom Options: OEM large quantity requirements

Figure 1. Circuit Board Indicators

