



LED Miniature

LED miniature lamps are suitable for such applications as utility displays, industrial equipment, radio and television broadcast equipment, telephone equipment, elevator controls, power plants as well as many others. Long-life, lower power usage, vibration and shock resistance make these LED lamps ideal for any industry. For optimal brightness and saturation, select the LED color closest to the shade of the lens or diffuser the lamp will be used"

- LED lamps come with both a built in resistor and a rectifier diode. This allows for bi-polar function and operates in sockets wired in any polarity
- Up to 90% more energy efficient than incandescent lamps
- Unbreakable
- Wide angle
- Reduced maintenance cost



T-3 1/4 - 7 Cluster

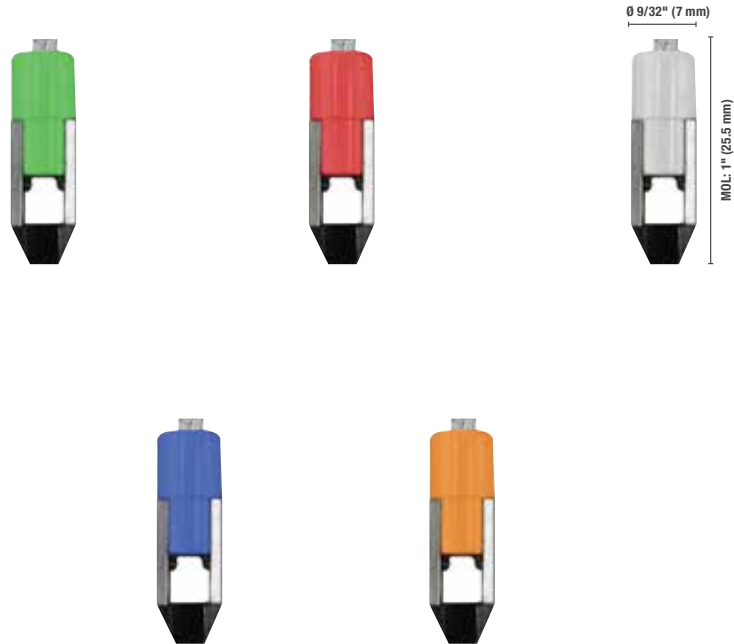


T-3 1/4 - Single chip

| Order code | Description | Shape | Base | Volts (VAC) | Color | Life L70 (hrs) |
|--|----------------------------------|---------|--------------------------|-------------|-------|----------------|
| T-3 1/4 - 7 Cluster (24-28 V, 48 V, 120 V) | | | | | | |
| 62061 | LED/WH/T31/4/MB/7CLUSTER/24V-28V | T-3 1/4 | Miniature bayonet (BA9s) | 24-28 | White | 100 000 |
| 62062 | LED/WH/T31/4/7CLUSTER/48V | T-3 1/4 | Miniature bayonet (BA9s) | 48 | White | 100 000 |
| 62064 | LED/B/T31/4/MB/7CLUSTER/120V | T-3 1/4 | Miniature bayonet (BA9s) | 120 | Blue | 100 000 |
| 62066 | LED/R/T31/4/MB/7CLUSTER/120V | T-3 1/4 | Miniature bayonet (BA9s) | 120 | Red | 100 000 |
| 62067 | LED/WH/T31/4/MB/7CLUSTER/120V | T-3 1/4 | Miniature bayonet (BA9s) | 120 | White | 100 000 |
| T-3 1/4 - Single chip (6 V, 12-14 V, 24-28 V) | | | | | | |
| 62028 | LED/A/T31/4/MB/6V | T-3 1/4 | Miniature bayonet (BA9s) | 6 | Amber | 100 000 |
| 62031 | LED/B/T31/4/MB/6V | T-3 1/4 | Miniature bayonet (BA9s) | 6 | Blue | 100 000 |
| 62034 | LED/G/T31/4/MB/6V | T-3 1/4 | Miniature bayonet (BA9s) | 6 | Green | 100 000 |
| 62037 | LED/R/T31/4/MB/6V | T-3 1/4 | Miniature bayonet (BA9s) | 6 | Red | 100 000 |
| 61974 | LED/WH/T31/4/MB/6V | T-3 1/4 | Miniature bayonet (BA9s) | 6 | White | 100 000 |
| 62029 | LED/A/T31/4/MB/12V-14V | T-3 1/4 | Miniature bayonet (BA9s) | 12-14 | Amber | 100 000 |
| 62032 | LED/B/T31/4/MB/12V-14V | T-3 1/4 | Miniature bayonet (BA9s) | 12-14 | Blue | 100 000 |
| 62038 | LED/R/T31/4/MB/12V-14V | T-3 1/4 | Miniature bayonet (BA9s) | 12-14 | Red | 100 000 |
| 62040 | LED/WH/T31/4/MB/12V-14V | T-3 1/4 | Miniature bayonet (BA9s) | 12-14 | White | 100 000 |
| 62030 | LED/A/T31/4/MB/24V-28V | T-3 1/4 | Miniature bayonet (BA9s) | 24-28 | Amber | 100 000 |
| 62033 | LED/B/T31/4/MB/24V-28V | T-3 1/4 | Miniature bayonet (BA9s) | 24-28 | Blue | 100 000 |
| 62036 | LED/G/T31/4/MB/24V-28V | T-3 1/4 | Miniature bayonet (BA9s) | 24-28 | Green | 100 000 |
| 62039 | LED/R/T31/4/MB/24V-28V | T-3 1/4 | Miniature bayonet (BA9s) | 24-28 | Red | 100 000 |
| 61970 | LED/WH/T31/4/MB/24V-28V | T-3 1/4 | Miniature bayonet (BA9s) | 24-28 | White | 100 000 |
| T-3 1/4 - Single chip (48 V, 60 V, 120 V) | | | | | | |
| 62047 | LED/B/T31/4/MB/48V | T-3 1/4 | Miniature bayonet (BA9s) | 48 | Blue | 100 000 |
| 62050 | LED/G/T31/4/MB/48V | T-3 1/4 | Miniature bayonet (BA9s) | 48 | Green | 100 000 |
| 62052 | LED/R/T31/4MB/48V | T-3 1/4 | Miniature bayonet (BA9s) | 48 | Red | 100 000 |
| 62055 | LED/WH/T31/4MB/48V | T-3 1/4 | Miniature bayonet (BA9s) | 48 | White | 100 000 |
| 62045 | LED/A/T31/4/MB/60V | T-3 1/4 | Miniature bayonet (BA9s) | 60 | Amber | 100 000 |
| 62048 | LED/B/T31/4/MB/60V | T-3 1/4 | Miniature bayonet (BA9s) | 60 | Blue | 100 000 |
| 62051 | LED/G/T31/4/MB/60V | T-3 1/4 | Miniature bayonet (BA9s) | 60 | Green | 100 000 |
| 62053 | LED/R/T31/4/MB/60V | T-3 1/4 | Miniature bayonet (BA9s) | 60 | Red | 100 000 |
| 62056 | LED/WH/T31/4/MB/60V | T-3 1/4 | Miniature bayonet (BA9s) | 60 | White | 100 000 |
| 62046 | LED/A/T31/4/MB/120V | T-3 1/4 | Miniature bayonet (BA9s) | 120 | Amber | 100 000 |
| 62049 | LED/B/T31/4/MB/120V | T-3 1/4 | Miniature bayonet (BA9s) | 120 | Blue | 100 000 |
| 62024 | LED/G/T31/4/MB/120V | T-3 1/4 | Miniature bayonet (BA9s) | 120 | Green | 100 000 |
| 62054 | LED/R/T31/4MB/120V | T-3 1/4 | Miniature bayonet (BA9s) | 120 | Red | 100 000 |
| 62057 | LED/WH/T31/4MB/120V | T-3 1/4 | Miniature bayonet (BA9s) | 120 | White | 100 000 |

*All colors are available upon request





| Order code | Description | Shape | Base | Volts (VAC) | Color | Life L70 (hrs) |
|--|-----------------------|-------|--------------------|-------------|-------|----------------|
| T-2 - Single chip flat top (6 V, 12 V, 24-28 V) | | | | | | |
| 62078 | LED/A/T2/PSB/6V | T-2 | Telephone slide #5 | 6 | Amber | 100 000 |
| 62081 | LED/G/T2/PSB/6V | T-2 | Telephone slide #5 | 6 | Green | 100 000 |
| 62084 | LED/R/T2/PSB/6V | T-2 | Telephone slide #5 | 6 | Red | 100 000 |
| 62087 | LED/WH/T2/PSB/6V | T-2 | Telephone slide #5 | 6 | White | 100 000 |
| 62079 | LED/A/T2/PSB/12V | T-2 | Telephone slide #5 | 12 | Amber | 100 000 |
| 62082 | LED/G/T2/PSB/12V | T-2 | Telephone slide #5 | 12 | Green | 100 000 |
| 62088 | LED/WH/T2/PSB/12V | T-2 | Telephone slide #5 | 12 | White | 100 000 |
| 62080 | LED/A/T2/PSB/24V-28V | T-2 | Telephone slide #5 | 24-28 | Amber | 100 000 |
| 62083 | LED/G/T2/PSB/24V-28V | T-2 | Telephone slide #5 | 24-28 | Green | 100 000 |
| 62086 | LED/R/T2/PSB/24V-28V | T-2 | Telephone slide #5 | 24-28 | Red | 100 000 |
| 62089 | LED/WH/T2/PSB/24V-28V | T-2 | Telephone slide #5 | 24-28 | White | 100 000 |
| T-2 - Single chip flat top (48 V, 60 V, 120 V) | | | | | | |
| 62090 | LED/B/T2/PSB/48V | T-2 | Telephone slide #5 | 48 | Blue | 100 000 |
| 62093 | LED/G/T2/PSB/48V | T-2 | Telephone slide #5 | 48 | Green | 100 000 |
| 62096 | LED/R/T2/PSB/48V | T-2 | Telephone slide #5 | 48 | Red | 100 000 |
| 62099 | LED/WH/T2/PSB/48V | T-2 | Telephone slide #5 | 48 | White | 100 000 |
| 62091 | LED/B/T2/PSB/60V | T-2 | Telephone slide #5 | 60 | Blue | 100 000 |
| 62094 | LED/G/T2/PSB/60V | T-2 | Telephone slide #5 | 60 | Green | 100 000 |
| 62097 | LED/R/T2/PSB/60V | T-2 | Telephone slide #5 | 60 | Red | 100 000 |
| 62100 | LED/WH/T2/PSB/60V | T-2 | Telephone slide #5 | 60 | White | 100 000 |
| 62092 | LED/B/T2/PSB/120V | T-2 | Telephone slide #5 | 120 | Blue | 100 000 |
| 62095 | LED/G/T2/PSB/120V | T-2 | Telephone slide #5 | 120 | Green | 100 000 |
| 62098 | LED/R/T2/PSB/120V | T-2 | Telephone slide #5 | 120 | Red | 100 000 |





| Order code | Description | Shape | Base | Volts (VAC) | Color | Life L70 (hrs) |
|---|---------------------|---------|------------------|-------------|-------|----------------|
| T-1 3/4 - Single chip flat top (6 V, 12 V, 28 V) | | | | | | |
| 62069 | LED/A/T13/4/MF/6V | T-1 3/4 | Midget Flange F6 | 6 | Amber | 100 000 |
| 62072 | LED/G/T13/4/MF/6V | T-1 3/4 | Midget Flange F6 | 6 | Green | 100 000 |
| 62075 | LED/WH/T13/4/MF/6V | T-1 3/4 | Midget Flange F6 | 6 | White | 100 000 |
| 62070 | LED/A/T13/4/MF/12V | T-1 3/4 | Midget Flange F6 | 12 | Amber | 100 000 |
| 62073 | LED/G/T13/4/MF/12V | T-1 3/4 | Midget Flange F6 | 12 | Green | 100 000 |
| 62076 | LED/WH/T13/4/MF/12V | T-1 3/4 | Midget Flange F6 | 12 | White | 100 000 |
| 62071 | LED/A/T13/4/MF/28V | T-1 3/4 | Midget Flange F6 | 28 | Amber | 100 000 |
| 62074 | LED/G/T13/4/MF/28V | T-1 3/4 | Midget Flange F6 | 28 | Green | 100 000 |
| 62077 | LED/WH/T13/4/MF/28V | T-1 3/4 | Midget Flange F6 | 28 | White | 100 000 |



| Order code | Description | Shape | Base | Volts (VAC) | Color | Life L70 (hrs) |
|---|---------------------|---------|---------------|-------------|-------|----------------|
| T-1 3/4 - Single chip flat top (6 V, 12 V, 28 V) | | | | | | |
| 62105 | LED/A/T13/4/MG/6V | T-1 3/4 | Midget Groove | 6 | Amber | 100 000 |
| 62108 | LED/G/T13/4/MG/6V | T-1 3/4 | Midget Groove | 6 | Green | 100 000 |
| 62111 | LED/R/T13/4/MG/6V | T-1 3/4 | Midget Groove | 6 | Red | 100 000 |
| 62102 | LED/WH/T13/4/MG/6V | T-1 3/4 | Midget Groove | 6 | White | 100 000 |
| 62106 | LED/A/T13/4/MG/12V | T-1 3/4 | Midget Groove | 12 | Amber | 100 000 |
| 62109 | LED/G/T13/4/MG/12V | T-1 3/4 | Midget Groove | 12 | Green | 100 000 |
| 62112 | LED/R/T13/4/MG/12V | T-1 3/4 | Midget Groove | 12 | Red | 100 000 |
| 62103 | LED/WH/T13/4/MG/12V | T-1 3/4 | Midget Groove | 12 | White | 100 000 |
| 62107 | LED/A/T13/4/MG/28V | T-1 3/4 | Midget Groove | 28 | Amber | 100 000 |
| 62110 | LED/G/T13/4/MG/28V | T-1 3/4 | Midget Groove | 28 | Green | 100 000 |
| 62113 | LED/R/T13/4/MG/28V | T-1 3/4 | Midget Groove | 28 | Red | 100 000 |
| 62104 | LED/WH/T13/4/MG/28V | T-1 3/4 | Midget Groove | 28 | White | 100 000 |



LED - Miniature Lamp



| Order code | Description | Shape | Base | Volts (VAC) | Color | Life L70 (hrs) |
|---|--------------------|---------|-------|-------------|-------|----------------|
| T-1 3/4 - Single chip flat top (6 V, 12 V, 28 V) | | | | | | |
| 62114 | LED/G/T13/4WB/6V | T-1 3/4 | Wedge | 6 | Green | 100 000 |
| 62117 | LED/R/T13/4WB/6V | T-1 3/4 | Wedge | 6 | Red | 100 000 |
| 62120 | LED/WH/T13/4WB/6V | T-1 3/4 | Wedge | 6 | White | 100 000 |
| 62115 | LED/G/T13/4WB/12V | T-1 3/4 | Wedge | 12 | Green | 100 000 |
| 62118 | LED/R/T13/4WB/12V | T-1 3/4 | Wedge | 12 | Red | 100 000 |
| 62121 | LED/WH/T13/4WB/12V | T-1 3/4 | Wedge | 12 | White | 100 000 |
| 62116 | LED/G/T13/4WB/28V | T-1 3/4 | Wedge | 28 | Green | 100 000 |
| 62119 | LED/R/T13/4WB/28V | T-1 3/4 | Wedge | 28 | Red | 100 000 |
| 62122 | LED/WH/T13/4WB/28V | T-1 3/4 | Wedge | 28 | White | 100 000 |



| Order code | Description | Shape | Base | Volts (VAC) | Color | Life L70 (hrs) |
|---|-------------------------|---------|-------|-------------|-------|----------------|
| T-3 1/4 - Single chip dome top (6 V, 12 V, 28 V) | | | | | | |
| 62123 | LED/A/T31/4/WB/6V | T-3 1/4 | Wedge | 6 | Amber | 100 000 |
| 62126 | LED/G/T31/4/WB/6V | T-3 1/4 | Wedge | 6 | Green | 100 000 |
| 62132 | LED/WH/T31/4/WB/6V | T-3 1/4 | Wedge | 6 | White | 100 000 |
| 62124 | LED/A/T31/4/WB/12V-14V | T-3 1/4 | Wedge | 12 | Amber | 100 000 |
| 62127 | LED/G/T31/4/WB/12V-14V | T-3 1/4 | Wedge | 12 | Green | 100 000 |
| 62130 | LED/R/T31/4/WB/12V-14V | T-3 1/4 | Wedge | 12 | Red | 100 000 |
| 62133 | LED/WH/T31/4/WB/12V-14V | T-3 1/4 | Wedge | 12 | White | 100 000 |
| 62125 | LED/A/T31/4/WB/24V-28V | T-3 1/4 | Wedge | 24-28 | Amber | 100 000 |
| 62128 | LED/G/T31/4/WB/24V-28V | T-3 1/4 | Wedge | 24-28 | Green | 100 000 |
| 62131 | LED/R/T31/4/WB/24V-28V | T-3 1/4 | Wedge | 24-28 | Red | 100 000 |





| Order code | Description | Shape | Base | Volts (VAC) | Color | Life L70 (hrs) |
|------------|-------------|-------|------|-------------|-------|----------------|
|------------|-------------|-------|------|-------------|-------|----------------|

S6 - 7 Cluster (12-14 V, 28 V)

| | | | | | | |
|-------|--------------------|----|------------------------|-------|-------|---------|
| 62151 | LED/A/S6/SC/12-14V | S6 | Single Contact (BA15s) | 12-14 | Amber | 100 000 |
| 62153 | LED/G/S6/SC/12-14V | S6 | Single Contact (BA15s) | 12-14 | Green | 100 000 |
| 62152 | LED/A/S6/SC/28V | S6 | Single Contact (BA15s) | 28 | Amber | 100 000 |
| 62154 | LED/G/S6/SC/28V | S6 | Single Contact (BA15s) | 28 | Green | 100 000 |
| 62156 | LED/R/S6/SC/28V | S6 | Single Contact (BA15s) | 28 | Red | 100 000 |

S6 - 7 Cluster (12-14 V, 28 V)

| | | | | | | |
|-------|--------------------|----|------------------------|-------|-------|---------|
| 62161 | LED/G/S6/DC/12-14V | S6 | Double Contact (BA15d) | 12-14 | Green | 100 000 |
| 62159 | LED/R/S6/DC/12-14V | S6 | Double Contact (BA15d) | 12-14 | Red | 100 000 |
| 62162 | LED/G/S6/DC/28V | S6 | Double Contact (BA15d) | 28 | Green | 100 000 |
| 62160 | LED/R/S6/DC/28V | S6 | Double Contact (BA15d) | 28 | Red | 100 000 |



| Order code | Description | Shape | Base | Volts (VAC) | Color | Life L70 (hrs) |
|------------|-------------|-------|------|-------------|-------|----------------|
|------------|-------------|-------|------|-------------|-------|----------------|

S6 - 7 Cluster (12-14 V, 28 V)

| | | | | | | |
|-------|------------------------|----|------------------|-------|-------|---------|
| 62135 | LED/A/S6/CAND/12-14V | S6 | Candelabra (E12) | 12-14 | Amber | 100 000 |
| 62143 | LED/B/S6/CAND/12-14V | S6 | Candelabra (E12) | 12-14 | Blue | 100 000 |
| 62139 | LED/R/S6/CAND/12V-14V | S6 | Candelabra (E12) | 12-14 | Red | 100 000 |
| 62136 | LED/A/S6/CAND/24V-28V | S6 | Candelabra (E12) | 24-28 | Amber | 100 000 |
| 62144 | LED/B/S6/CAND/24V-28V | S6 | Candelabra (E12) | 24-28 | Blue | 100 000 |
| 62138 | LED/G/S6/CAND/24V-28V | S6 | Candelabra (E12) | 24-28 | Green | 100 000 |
| 62142 | LED/WH/S6/CAND/24V-28V | S6 | Candelabra (E12) | 24-28 | White | 100 000 |

S6 - 7 Cluster (120 V)

| | | | | | | |
|-------|---------------------|----|------------------|-----|-------|---------|
| 62145 | LED/A/S6/CAND/120V | S6 | Candelabra (E12) | 120 | Amber | 100 000 |
| 62146 | LED/B/S6/CAND/120V | S6 | Candelabra (E12) | 120 | Blue | 100 000 |
| 62147 | LED/G/S6/CAND/120V | S6 | Candelabra (E12) | 120 | Green | 100 000 |
| 62148 | LED/R/S6/CAND/120V | S6 | Candelabra (E12) | 120 | Red | 100 000 |
| 62149 | LED/WH/S6/CAND/120V | S6 | Candelabra (E12) | 120 | White | 100 000 |

