

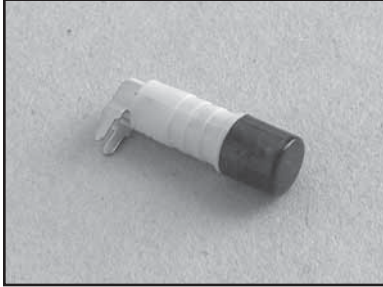
Optolite Indicators Push-In

INDICATOR LIGHTS



Sub-Miniature "Little QT"

99-33080 Type
99-33081 Type



Material and Finishes

Housing and lamp base, gray glass filled nylon. Terminals, beryllium copper, gold flashed. Retainer clip, stainless steel.

Lens Cap

High impact-resistant plastic per L-P-393 (polycarbonate).

Lamp

T-1 wire terminal lamp; Lamp is replaced by removing snap-on cap.

Mounting

Press-in: Assembly press fits into .189 in. dia. hole. No mounting hardware required.

Retainer clip: For mounting assembly into .200 in. ± .005 in. dia. hole or panels less than .06 in. thick. Order clip 2-1186-643 separately.

Base Assembly
99-33080

Base Assembly
99-33081

Base Assembly
99-33087

Cap Styles

() P46 CAP

() P47 CAP

Printed Circuit Mounting Holes

.046 ± .005 Dia.

Schematic

Complete Assembly Part Numbers (Less Lamp)		
Transparent Lens Colors	() P46 Cap	() P47 Cap
Clear*	99-33080- 5P46	99-33080- 5P47
Red	99-33080- 6P46	99-33080- 6P47
Green	99-33080- 7P46	99-33080- 7P47
Amber	99-33080- 8P46	99-33080- 8P47
Blue	99-33080-11P46	99-33080-11P47
Yellow	99-33080-12P46	99-33080-12P47
Orange	99-33080-16P46	99-33080-16P47
Off-white	99-33080-17P46	99-33080-17P47

Translucent colors: add "TL" as suffix to Part Number. * White if translucent color specified. () indicates color designation. For printed circuit terminals change 99-33080 to 99-33081. To order with lamp installed, add Lamp Number as suffix to Part Number. Example: 99-33080-5P46-001.

"Little QT" Lamps

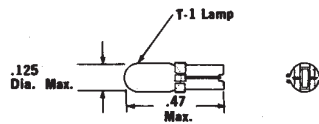


Lamp Bases

Color coded for operating voltage as follows:

Blue	1.5 volts
Yellow	3.0 volts
Black	5.0 volts
Green	10.0 volts
Gray	120 volts
Purple	14.0 volts
White	18.0 volts
Red	28.0 volts AC

Lamp Drawing



Little QT Lamp Selection

Lamp Number	Volts	Amps	MSCP	Average Life (Hrs.)	ANSI Number (Ref.)
003	1.5	.060	.02	50,000+	7202
004	1.5	.075	.03	16,000+	7203
005	3.0	.060	.03	100,000	7207
006	3.0	.120	.15	16,000	7208
007	3.0	.008	.01	16,000	7204
008	5.0	.015	.02	10,000	7209
009	5.0	.060	.05	100,000	683
010	5.0	.075	.09	25,000	713
012	5.0	.115	.20	5,000	7213
013	5.0	.060	.03	100,000	680
014	5.0	.115	.19	10,000	7215
015	5.0	.125	.25	5,000	7216
024	5.0	.115	.15	40,000	715
025	5.0	.060	.15	6,500	6150
016	10.0	.027	.10	10,000	7218
017	12.0	.060	.15	16,000+	7219
027	14.0	.040	.15	16,000	23
018	18.0	.026	.15	10,000	7220
022	28.0	.024	.15	16,000+	6838