

Description

The 1812L Series PTC provides surface mount overcurrent protection for applications where resettable protection is desired.



Features

- RoHS compliant, lead-free and halogen-free
- Fast response
- Compact design
- Low resistance
- Low-profile
- Compatible with high temperature solders



Applications

- Plug and play protection for motherboards and peripherals
- USB peripherals
- PCI cards
- Game console port protection

Agency Approvals

| AGENCY | AGENCY FILE NUMBER |
|---|--------------------|
|  | E183209 |
|  | R50119118 |

Electrical Characteristics

| Part Number | Marking | I _{hold} (A) | I _{trip} (A) | V _{max} (Vdc) | I _{max} (A) | P _d typ. (W) | Max. Time To Trip | | Resistance | | Agency Approvals | |
|-------------------------|----------|-----------------------|-----------------------|------------------------|----------------------|-------------------------|-------------------|-------------|----------------------|-----------------------|---|---|
| | | | | | | | Current (A) | Time (Sec.) | R _{min} (Ω) | R _{1max} (Ω) |  |  |
| 1812L010 | LF010 | 0.10 | 0.30 | 30 | 100 | 0.8 | 0.50 | 1.50 | 1.600 | 15.000 | X | X |
| 1812L010/60 | LF010-60 | 0.10 | 0.30 | 60 | 10 | 0.8 | 0.50 | 1.50 | 1.600 | 15.000 | X | X |
| 1812L014 | LF014 | 0.14 | 0.34 | 60 | 10 | 0.8 | 1.50 | 0.15 | 1.500 | 6.000 | X | X |
| 1812L020 | LF020 | 0.20 | 0.40 | 30 | 100 | 0.8 | 8.00 | 0.02 | 0.800 | 5.000 | X | X |
| 1812L020/60 | LF020-60 | 0.20 | 0.40 | 60 | 40 | 0.8 | 1.00 | 2.00 | 1.400 | 4.400 | X | X |
| 1812L035/30 | LF035-30 | 0.35 | 0.75 | 30 | 100 | 0.8 | 8.00 | 0.15 | 0.400 | 1.700 | X | X |
| 1812L050 ¹ | LF050 | 0.50 | 1.00 | 15 | 100 | 0.8 | 8.00 | 0.15 | 0.150 | 1.000 | X | X |
| 1812L050/30 | LF050-30 | 0.50 | 1.00 | 30 | 100 | 0.8 | 8.00 | 0.15 | 0.150 | 1.000 | X | X |
| 1812L075 ¹ | LF075 | 0.75 | 1.50 | 13.2 | 100 | 0.8 | 8.00 | 0.20 | 0.100 | 0.450 | X | X |
| 1812L075/24 | LF075-24 | 0.75 | 1.50 | 24 | 100 | 0.8 | 8.00 | 0.20 | 0.110 | 0.290 | X | X |
| 1812L075/33 | LF075-33 | 0.75 | 1.50 | 33 | 20 | 0.8 | 8.00 | 0.20 | 0.110 | 0.400 | X | X |
| 1812L110 ¹ | LF110 | 1.10 | 2.20 | 8 | 100 | 0.8 | 8.00 | 0.30 | 0.040 | 0.210 | X | X |
| 1812L110/16 | LF110-16 | 1.10 | 1.95 | 16 | 100 | 0.8 | 8.00 | 0.30 | 0.060 | 0.180 | X | X |
| 1812L110/24 | LF110-24 | 1.10 | 1.95 | 24 | 20 | 0.8 | 8.00 | 0.50 | 0.060 | 0.200 | X | X |
| 1812L110/33 | LF110-33 | 1.10 | 1.95 | 33 | 20 | 0.8 | 8.00 | 0.50 | 0.060 | 0.200 | X | X |
| 1812L125/6 | LF125-6 | 1.25 | 2.50 | 6 | 100 | 0.8 | 8.00 | 0.40 | 0.050 | 0.140 | X | X |
| 1812L125/16 | LF125 | 1.25 | 2.50 | 16 | 100 | 0.8 | 8.00 | 0.40 | 0.050 | 0.140 | X | X |
| 1812L150 ¹ | LF150 | 1.50 | 3.00 | 8 | 100 | 0.8 | 8.00 | 0.30 | 0.040 | 0.110 | X | X |
| 1812L150/12 | LF150-12 | 1.50 | 3.00 | 12 | 100 | 0.8 | 8.00 | 0.50 | 0.040 | 0.110 | X | X |
| 1812L150/24 | LF150-24 | 1.50 | 3.00 | 24 | 20 | 0.8 | 8.00 | 1.50 | 0.040 | 0.120 | X | X |
| 1812L160 ¹ | LF160 | 1.60 | 2.80 | 8 | 100 | 0.8 | 8.00 | 1.00 | 0.030 | 0.100 | X | X |
| 1812L160/12 | LF160-12 | 1.60 | 2.80 | 12 | 100 | 0.8 | 8.00 | 1.00 | 0.030 | 0.100 | X | X |
| 1812L200TH ¹ | LF200 | 2.00 | 3.50 | 8 | 100 | 0.8 | 8.00 | 2.00 | 0.020 | 0.070 | X | X |
| 1812L200/12 | LF200-12 | 2.00 | 3.50 | 12 | 100 | 1.0 | 8.00 | 2.00 | 0.020 | 0.070 | X | X |
| 1812L260TH ¹ | LF260 | 2.60 | 5.00 | 8 | 100 | 0.8 | 8.00 | 2.50 | 0.015 | 0.047 | X | X |
| 1812L260/12 | LF260-12 | 2.60 | 5.00 | 12 | 100 | 0.8 | 8.00 | 5.00 | 0.015 | 0.055 | X | X |
| 1812L300 | LF300 | 3.00 | 5.00 | 6 | 100 | 0.8 | 8.00 | 4.00 | 0.012 | 0.040 | X | X |

I_{hold} = Hold current: maximum current device will pass without tripping in 20°C still air.
 I_{trip} = Trip current: minimum current at which the device will trip in 20°C still air.
 V_{max} = Maximum voltage device can withstand without damage at rated current (I_{max})
 I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max})
 P_d = Power dissipated from device when in the tripped state at 20°C still air.

R_{min} = Minimum resistance of device in initial (un-soldered) state.
 R_{typ} = Typical resistance of device in initial (un-soldered) state.
 R_{1max} = Maximum resistance of device at 20°C measured one hour after tripping or reflow soldering of 260°C for 20 sec.

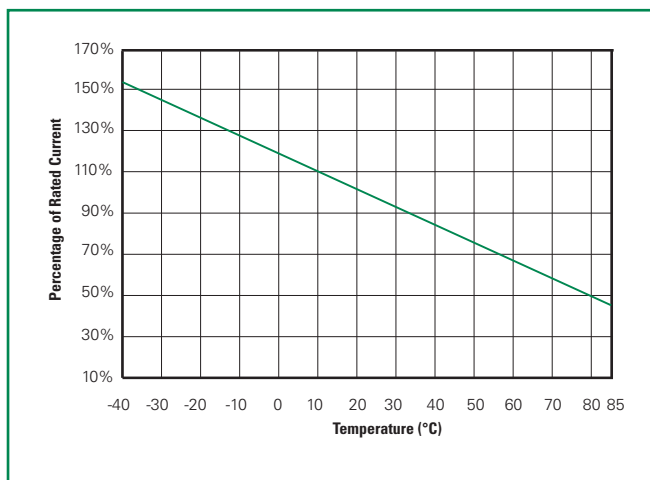
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

1 Some older references to these devices may include "-C" in the Part Number. The "-C" should be omitted when placing new orders for the device.

Temperature Derating

| Part Number | Ambient Operation Temperature | | | | | | | | |
|-------------|-------------------------------|-------|------|------|------|------|------|------|------|
| | -40°C | -20°C | 0°C | 20°C | 40°C | 50°C | 60°C | 70°C | 85°C |
| | Hold Current (A) | | | | | | | | |
| 1812L010 | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 |
| 1812L010/60 | 0.14 | 0.13 | 0.11 | 0.10 | 0.09 | 0.08 | 0.07 | 0.07 | 0.05 |
| 1812L014 | 0.23 | 0.19 | 0.17 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.06 |
| 1812L020 | 0.29 | 0.26 | 0.23 | 0.20 | 0.17 | 0.15 | 0.14 | 0.12 | 0.10 |
| 1812L020/60 | 0.30 | 0.27 | 0.23 | 0.20 | 0.17 | 0.14 | 0.13 | 0.11 | 0.08 |
| 1812L035/30 | 0.50 | 0.45 | 0.40 | 0.35 | 0.30 | 0.26 | 0.24 | 0.20 | 0.16 |
| 1812L050 | 0.77 | 0.68 | 0.59 | 0.50 | 0.44 | 0.40 | 0.37 | 0.33 | 0.29 |
| 1812L050/30 | 0.77 | 0.68 | 0.59 | 0.50 | 0.44 | 0.40 | 0.37 | 0.33 | 0.29 |
| 1812L075 | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.60 | 0.55 | 0.49 | 0.43 |
| 1812L075/24 | 1.06 | 0.95 | 0.84 | 0.75 | 0.60 | 0.55 | 0.50 | 0.45 | 0.37 |
| 1812L075/33 | 1.10 | 1.00 | 0.88 | 0.75 | 0.66 | 0.60 | 0.56 | 0.47 | 0.36 |
| 1812L110 | 1.59 | 1.43 | 1.26 | 1.10 | 0.95 | 0.87 | 0.80 | 0.71 | 0.60 |
| 1812L110/16 | 1.58 | 1.43 | 1.27 | 1.10 | 0.95 | 0.85 | 0.77 | 0.71 | 0.58 |
| 1812L110/24 | 1.55 | 1.40 | 1.25 | 1.10 | 0.93 | 0.83 | 0.73 | 0.63 | 0.50 |
| 1812L110/33 | 1.55 | 1.40 | 1.25 | 1.10 | 0.93 | 0.83 | 0.73 | 0.63 | 0.50 |
| 1812L125/6 | 2.00 | 1.75 | 1.52 | 1.25 | 1.00 | 0.95 | 0.90 | 0.75 | 0.53 |
| 1812L125/16 | 2.00 | 1.75 | 1.52 | 1.25 | 1.00 | 0.95 | 0.90 | 0.75 | 0.53 |
| 1812L150 | 2.06 | 1.93 | 1.79 | 1.50 | 1.28 | 1.10 | 1.02 | 0.80 | 0.68 |
| 1812L150/12 | 2.04 | 1.88 | 1.68 | 1.50 | 1.25 | 1.10 | 1.00 | 0.80 | 0.60 |
| 1812L150/24 | 2.05 | 1.87 | 1.67 | 1.50 | 1.25 | 1.08 | 0.95 | 0.77 | 0.60 |
| 1812L160 | 2.20 | 2.06 | 1.91 | 1.60 | 1.36 | 1.17 | 1.09 | 0.85 | 0.72 |
| 1812L160/12 | 2.20 | 2.06 | 1.91 | 1.60 | 1.36 | 1.17 | 1.09 | 0.85 | 0.72 |
| 1812L200TH | 2.60 | 2.44 | 2.22 | 2.00 | 1.78 | 1.67 | 1.50 | 1.45 | 1.29 |
| 1812L200/12 | 2.82 | 2.60 | 2.36 | 2.00 | 1.74 | 1.44 | 1.40 | 1.20 | 1.00 |
| 1812L260TH | 3.40 | 3.16 | 3.00 | 2.60 | 2.30 | 2.15 | 2.00 | 1.85 | 1.63 |
| 1812L260/12 | 3.40 | 3.16 | 3.00 | 2.60 | 2.30 | 2.15 | 2.00 | 1.85 | 1.63 |
| 1812L300 | 4.13 | 3.75 | 3.30 | 3.00 | 2.61 | 2.43 | 2.25 | 2.00 | 1.78 |

Temperature Derating Curve



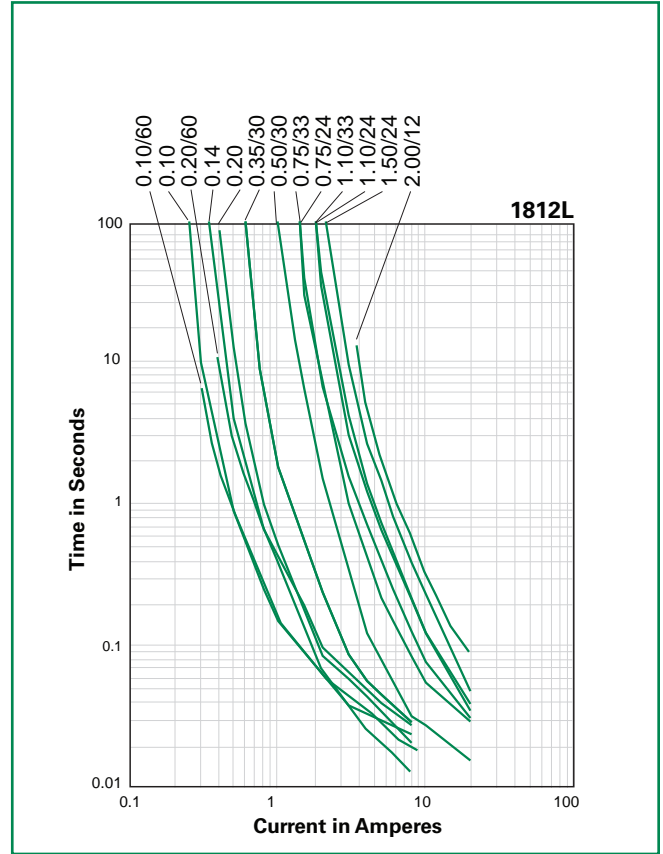
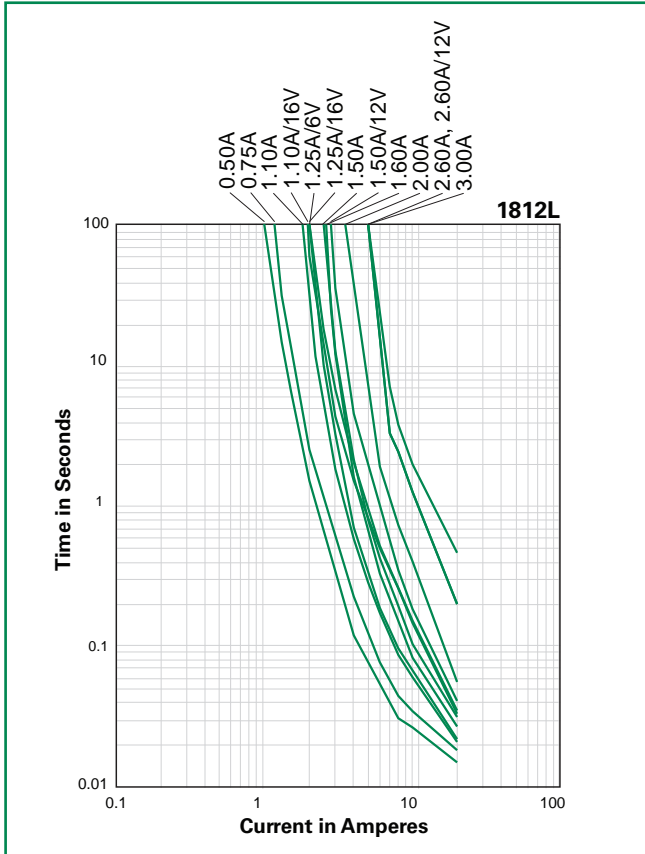
Physical Specifications

| | |
|---------------------------|--|
| Terminal Material | Solder-Plated Copper (Solder Material: Matte Tin (Sn)) |
| Lead Solderability | Meets EIA Specification RS186-9E, ANSI/J-STD-002 Category 3. |

Environmental Specifications

| | |
|---|--|
| Operating/Storage Temp. | -40°C to +85°C |
| Max. Device Surface Temp. in Tripped State | 125°C |
| Passive Aging | +85°C, 1000 hours -/+5% typical resistance change |
| Humidity Aging | +85°C, 85% R.H., 1000 hours -/+5% typical resistance change |
| Thermal Shock | MIL-STD-202, Method 107G +85°C/-40°C 20 times -30% typical resistance change |
| Solvent Resistance | MIL-STD-202, Method 215, No change |
| Vibration | MIL-STD-883C, Method 2007.1, Condition A, No change |
| Moisture Level Sensitivity | Level 1, J-STD-020C |

Average Time Current Curves



The average time current curves and Temperature Rerating curve performance is affected by a number of variables, and these curves provided as guidance only. Customer must verify the performance in their application.

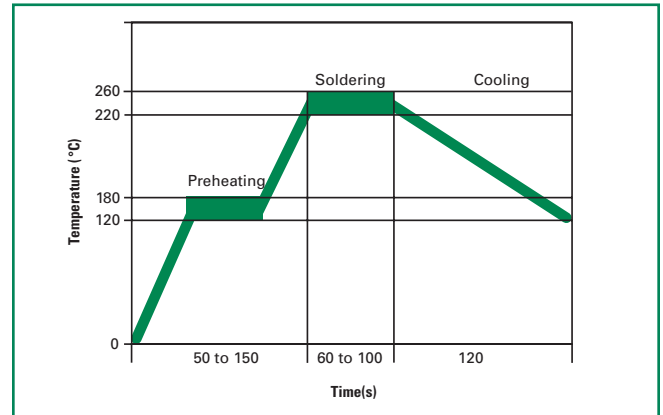
1812L Series

Soldering Parameters

| | |
|--------------------------------|------------------|
| Condition | Reflow |
| Peak Temp/ Duration Time | 260°C / 10 Sec |
| Time above liquids (TAL) 220°C | 60 Sec ~ 100 Sec |
| Preheat 120°C~ 180°C | 50 Sec ~ 150 Sec |
| Storage Condition | 0°C~35°C, ≤70%RH |

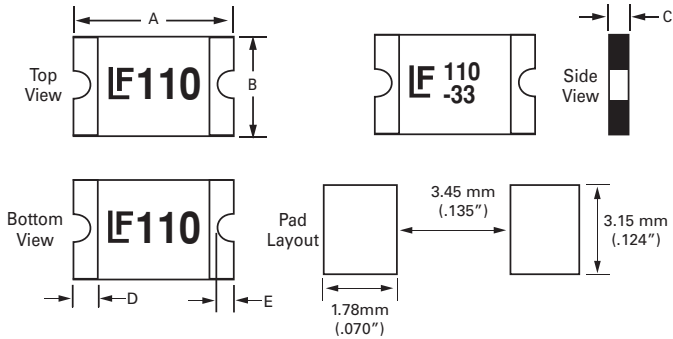
- Recommended reflow methods: IR, vapor phase oven, hot air oven, N₂ environment for lead-free
- Recommended maximum paste thickness is 0.25mm (0.010 inch)
- Devices can be cleaned using standard industry methods and solvents.

Note: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.



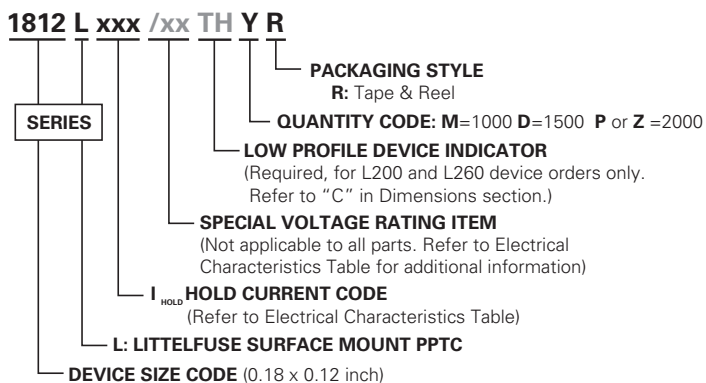
Dimensions

MARKING CODE VARIES
WITH AMPERAGE AND VOLTAGE RATING
(See Electrical Characteristics Table)
SHOWN ARE:
- 1.1A/6V RATING (LEFT)
- 1.1A/33V RATING (RIGHT)



| Part Number | A | | | | B | | | | C | | | | D | | | | E | | | |
|-------------|--------|------|------|------|--------|------|------|------|--------|-------|------|------|--------|------|-----|-----|--------|------|------|------|
| | Inches | | mm | | Inches | | mm | | Inches | | mm | | Inches | | mm | | Inches | | mm | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 1812L010 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.05 | 0.75 | 1.25 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L010/60 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.05 | 0.75 | 1.25 | 0.01 | 0.05 | 0.3 | 1.2 | 0.006 | 0.03 | 0.15 | 0.65 |
| 1812L014 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.08 | 0.75 | 1.95 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L020 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.02 | 0.04 | 0.55 | 1 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L020/60 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.05 | 0.75 | 1.25 | 0.01 | 0.05 | 0.3 | 1.2 | 0.006 | 0.03 | 0.15 | 0.65 |
| 1812L035/30 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.02 | 0.04 | 0.6 | 1.25 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L050 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.02 | 0.03 | 0.5 | 0.75 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.02 | 0.15 | 0.5 |
| 1812L050/30 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.02 | 0.04 | 0.5 | 1 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L075 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.02 | 0.03 | 0.5 | 0.75 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.02 | 0.15 | 0.5 |
| 1812L075/24 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.06 | 0.75 | 1.55 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L075/33 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.06 | 0.75 | 1.55 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L110 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.02 | 0.03 | 0.5 | 0.71 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.02 | 0.15 | 0.5 |
| 1812L110/24 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.02 | 0.04 | 0.5 | 1.07 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L110/16 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.05 | 0.75 | 1.25 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L110/33 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.05 | 0.08 | 1.2 | 2 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L125/6 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.02 | 0.03 | 0.45 | 0.75 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L125/16 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.05 | 0.75 | 1.25 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.02 | 0.15 | 0.5 |
| 1812L150 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.02 | 0.03 | 0.4 | 0.71 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L150/12 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.05 | 0.75 | 1.25 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L150/24 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.07 | 0.8 | 1.8 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L160 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.02 | 0.03 | 0.4 | 0.75 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L160/12 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.05 | 0.75 | 1.25 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L200TH | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.008 | 0.024 | 0.2 | 0.6 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.02 | 0.15 | 0.5 |
| 1812L200/12 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.05 | 0.8 | 1.20 | 0.01 | 0.05 | 0.3 | 1.2 | 0.006 | 0.03 | 0.15 | 0.65 |
| 1812L260TH | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.02 | 0.04 | 0.5 | 1.0 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.02 | 0.15 | 0.5 |
| 1812L260/12 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.05 | 0.8 | 1.34 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |
| 1812L300 | 0.17 | 0.19 | 4.37 | 4.73 | 0.12 | 0.13 | 3.07 | 3.41 | 0.03 | 0.06 | 0.8 | 1.50 | 0.01 | 0.05 | 0.3 | 1.2 | 0.01 | 0.03 | 0.15 | 0.65 |

Part Ordering Number System



Packaging

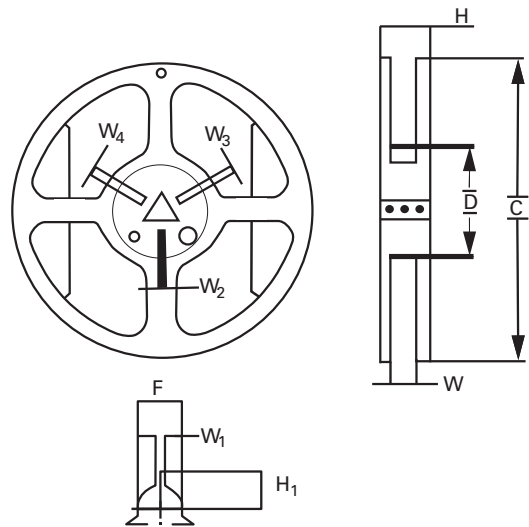
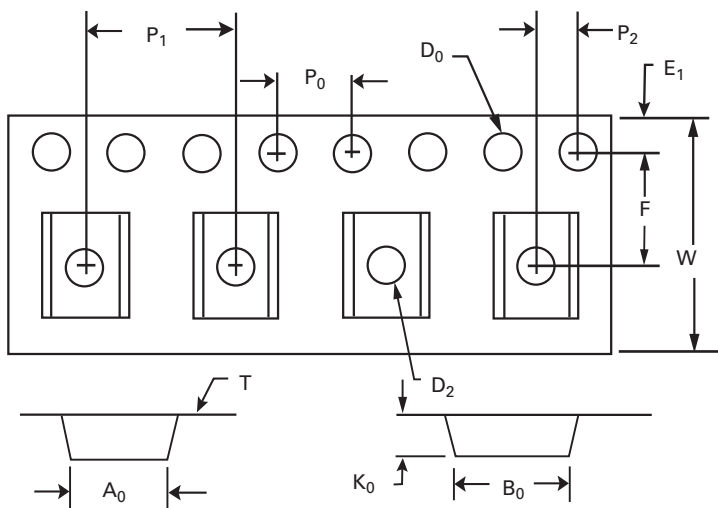
| Part Number | Ordering Number | Halogen Free | I _{hold} (A) | I _{hold} Code | Voltage Option | Packaging Option | Quantity | Quantity & Packaging Code |
|-------------|-----------------|--------------|-----------------------|------------------------|----------------|------------------|----------|---------------------------|
| 1812L010 | 1812L010DR | Yes | 0.10 | 010 | | Tape and Reel | 1500 | DR |
| 1812L010/60 | 1812L010/60DR | Yes | 0.10 | 010 | /60 | | 1500 | DR |
| 1812L014 | 1812L014DR | Yes | 0.14 | 014 | | | 1500 | DR |
| 1812L020 | 1812L020PR | Yes | 0.20 | 020 | | | 2000 | PR |
| 1812L020/60 | 1812L020/60DR | Yes | 0.20 | 020 | /60 | | 1500 | DR |
| 1812L035/30 | 1812L035/30DR | Yes | 0.35 | 035 | /30 | | 1500 | DR |
| 1812L050 | 1812L050PR | Yes | 0.50 | 050 | | | 2000 | PR |
| 1812L050/30 | 1812L050/30PR | Yes | 0.50 | 050 | /30 | | 2000 | PR |
| 1812L075 | 1812L075PR | Yes | 0.75 | 075 | | | 2000 | PR |
| 1812L75/24 | 1812L075/24DR | Yes | 0.75 | 075 | /24 | | 1500 | DR |
| 1812L75/33 | 1812L075/33DR | Yes | 0.75 | 075 | /33 | | 1500 | DR |
| 1812L110 | 1812L110PR | Yes | 1.10 | 110 | | | 2000 | PR |
| 1812L110/16 | 1812L110/16DR | Yes | 1.10 | 110 | /16 | | 1500 | DR |
| 1812L110/24 | 1812L110/24DR | Yes | 1.10 | 110 | /24 | | 1500 | DR |
| 1812L110/33 | 1812L110/33MR | Yes | 1.10 | 110 | /33 | | 1000 | MR |
| 1812L125/6 | 1812L125/6PR | Yes | 1.25 | 125 | /6 | | 2000 | PR |
| 1812L125/16 | 1812L125/16DR | Yes | 1.25 | 125 | /16 | | 1500 | DR |
| 1812L150 | 1812L150ZR | Yes | 1.50 | 150 | | | 2000 | ZR |
| 1812L150/12 | 1812L150/12DR | Yes | 1.50 | 150 | /12 | | 1500 | DR |
| 1812L150/24 | 1812L150/24MR | Yes | 1.50 | 150 | /24 | | 1000 | MR |
| 1812L160 | 1812L160PR | Yes | 1.60 | 160 | | | 2000 | PR |
| 1812L160/12 | 1812L160/12DR | Yes | 1.60 | 160 | /12 | | 1500 | DR |
| 1812L200TH | 1812L200THPR | Yes | 2.00 | 200 | | | 2000 | PR |
| 1812L200/12 | 1812L200/12DR | Yes | 2.00 | 200 | /12 | | 1500 | DR |
| 1812L260TH | 1812L260THDR | Yes | 2.60 | 260 | | | 1500 | DR |
| 1812L260/12 | 1812L260/12MR | Yes | 2.60 | 260 | /12 | | 1000 | MR |
| 1812L300 | 1812L300MR | Yes | 3.00 | 300 | | | 1000 | MR |

Tape and Reel Specifications

| TAPE SPECIFICATIONS: EIA-481-1 (mm) | | | |
|-------------------------------------|---|---|---|
| | 1812L020 1812L035/30 1812L050 1812L075 1812L110 1812L125/6 1812L150 1812L160 1812L200 | 1812L010 1812L010/60 1812L014 1812L020/60 1812L050/30 1812L075/24 1812L075/33 1812L110/16 1812L110/24 1812L125/16 1812L150/12 1812L160/12 1812L200/12 1812L260 | 1812L110/33 1812L150/24 1812L260/12 1812L300 |
| W | 12.00+0.30-0.10 | 12.00+/-0.30 | 12.00+/-0.30 |
| F | 5.50+/-0.05 | 5.50+/-0.05 | 5.50+/-0.05 |
| E₁ | 1.75+/-0.10 | 1.75+/-0.10 | 1.75+/-0.10 |
| D₀ | 1.50+0.10 | 1.55+/-0.05 | 1.55+/-0.05 |
| D₁ | 1.50+0.25 | 1.50 (MIN) | 1.50 (MIN) |
| P₀ | 4.00+/-0.10 | 4.00+/-0.10 | 4.00+/-0.10 |
| P₁ | 8.00+/-0.10 | 8.00+/-0.10 | 8.00+/-0.10 |
| P₂ | 2.00+/-0.05 | 2.00+/-0.05 | 2.00+/-0.05 |
| A₀ | 3.58+/-0.10 | 3.58+/-0.10 | 3.58+/-0.10 |
| B₀ | 4.93+/-0.10 | 4.93+/-0.10 | 4.93+/-0.10 |
| T | 0.25+/-0.10 | 0.25+/-0.10 | 0.25+/-0.10 |
| K₀ | 0.87+/-0.06 | 1.25+/-0.10 | 2.10+/-0.10 |
| Leader min. | 390 | 390 | 390 |
| Trailer min. | 160 | 160 | 160 |

**REEL DIMENSIONS:
EIA-481-1 (mm)**

| | |
|----------------------|-------------|
| H | 16.0+/-0.2 |
| W | 13.2+/-1.5 |
| D | Ø60.2+/-0.5 |
| F | Ø13.0+/-0.5 |
| C | Ø178+/-1.0 |
| H₁ | 11+/-0.5 |
| W₁ | 2.5+0.5 |
| W₂ | 3.0+0.5 |
| W₃ | 4.0+0.5 |
| W₄ | 5.0+0.5 |





Стандарт Электрон Связь

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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