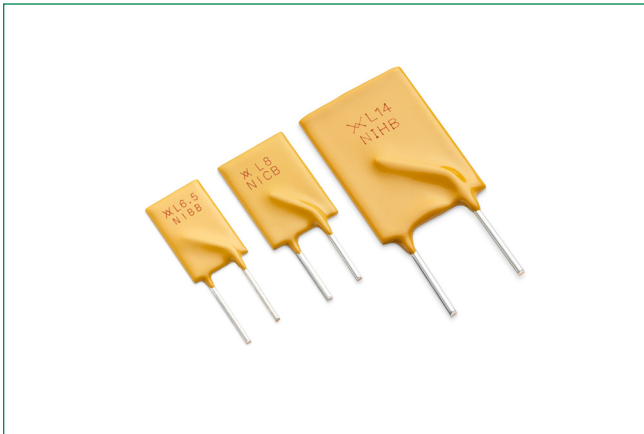


PolySwitch® Resettable PTCs

Radial Leaded > AHRL Series



Description

The AHRL Series is a PPTC resettable device with compact size designed for the automotive industry. It is a 16 V high-temperature, lead-free, radial leaded resettable device that meets Littelfuse's Automotive qualification. This qualification is based on AEC-Q200, Stress Test Qualification for Passive Components.

Features

- Compact size (Width and Height)
- Wide range of hold current ratings (3.5 A~15 A) with low thermal derating
- Operating temperature up to 125° C
- AEC-Q200 compliant
- RoHS compliant, Lead-free, and Halogen-free

Benefits

- Resettable overcurrent circuit protection device
- Applicable for Automotive and General Electronics applications with limited space
- Compatible with high-volume electronics assembly
- Customization of leaded type available to facilitate customer design

Applications

- Motor and motor circuit protection including power door-locks, mirrors, lumbar pumps, seats, sunroofs, and windows
- Electronic Control Unit (ECU) I/O protection
- Heating, Ventilation and Cooling (HVAC) motor and I/O protection
- Telematics, infotainment and navigations systems
- Liquid Crystal Display (LCD) back-light heaters
- Power and cigarette lighter outlets, plugs and adapter/chargers
- Powered networks and buses
- Air-flow detection and overcurrent protection in HVAC and cooling fan systems
- Stall detection in express window and sunroof circuits
- Resettable overcurrent protection for power distribution, electrical centers and junction boxes
- Wire downsizing
- Motor electromagnetic interference (EMI) suppression
- Electrostatic discharge (ESD) damage protection
- Load dump and other transient voltage protection

Additional Information



Resources



Accessories



Samples

Agency Approvals

| Agency | Agency File Number |
|--------|--------------------|
| | E74889 |

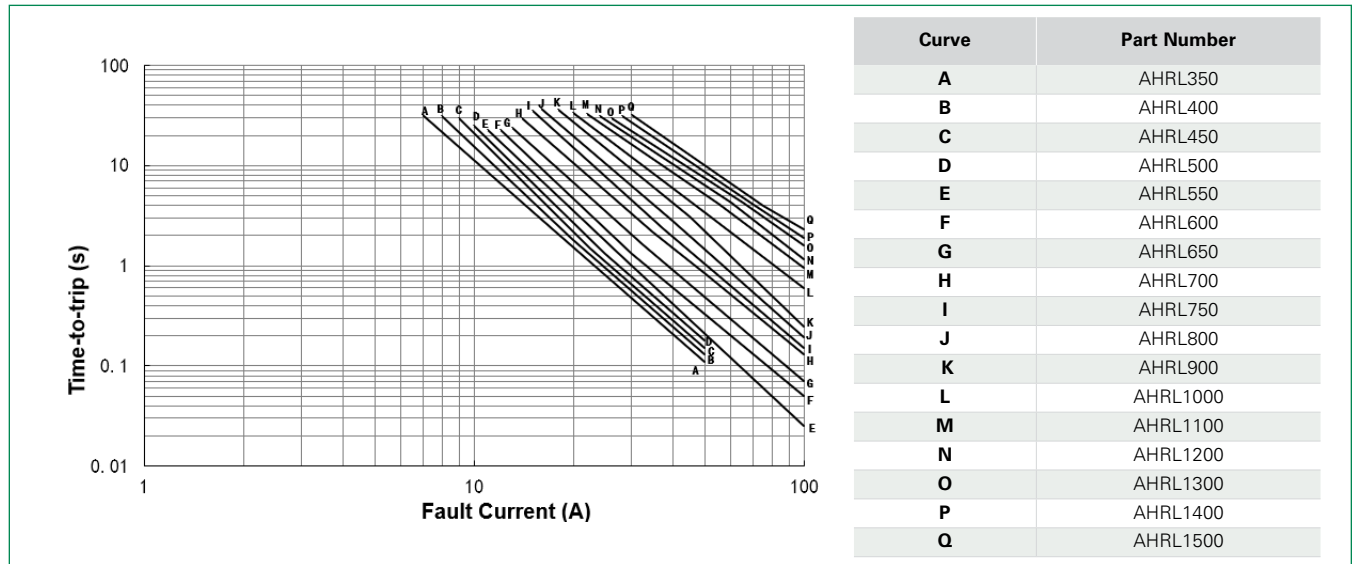
PolySwitch® Resettable PTCs

Radial Leded > AHRL Series

Electrical Characteristics

| Part Number | Ordering Part Number | I_H (A) | I_H (A) | I_T (A) | V_{MAX} | I_{MAX} | $P_{D Typ}$ (W) | Max Time-to-trip | | R_{MIN} (Ω) | R_{MAX} (Ω) | R_{1MAX} (Ω) | Lead Size (mm ² /AWG) |
|---------------------------------------|----------------------|----------------|----------------|-----------|--------------|-----------|-----------------|------------------|------|---------------|---------------|----------------|----------------------------------|
| | | (R_{1MAX}) | (R_{3MAX}) | | (V_{DC}) | (A) | | (s) | | | | | |
| AHRL (High Temperature) – 16 V | | | | | | | | | | | | | |
| AHRL350 | RF4989-000 | 3.5 | 3.5 | 7.0 | 16 | 50 | 3.0 | 17.5 | 4.5 | 0.0180 | 0.0320 | 0.0500 | 0.320/22 |
| AHRL400 | RF4990-000 | 4.0 | 4.0 | 8.0 | 16 | 50 | 3.3 | 20.0 | 5.0 | 0.0160 | 0.0280 | 0.0440 | 0.320/22 |
| AHRL450 | RF4991-000 | 4.5 | 4.5 | 9.0 | 16 | 50 | 3.5 | 22.5 | 5.5 | 0.0145 | 0.0260 | 0.0400 | 0.520/20 |
| AHRL500 | RF4992-000 | 5.0 | 5.0 | 10.0 | 16 | 50 | 3.5 | 25.0 | 5.8 | 0.0135 | 0.0240 | 0.0380 | 0.520/20 |
| AHRL550 | RF4993-000 | 5.5 | 5.5 | 11.0 | 16 | 50 | 3.3 | 27.5 | 6.0 | 0.0120 | 0.0220 | 0.0340 | 0.520/20 |
| AHRL600 | RF4894-000 | 6.0 | 6.0 | 13.0 | 16 | 50 | 3.0 | 30.0 | 6.5 | 0.0090 | 0.0140 | 0.0252 | 0.520/20 |
| AHRL650 | RF4994-000 | 6.5 | 6.5 | 13.0 | 16 | 50 | 3.3 | 32.5 | 6.5 | 0.0095 | 0.0150 | 0.0225 | 0.520/20 |
| AHRL700 | RF4995-000 | 7.0 | 7.0 | 14.0 | 16 | 100 | 3.7 | 35.0 | 6.8 | 0.0085 | 0.0140 | 0.0190 | 0.520/20 |
| AHRL750 | RF4996-000 | 7.5 | 7.5 | 15.0 | 16 | 100 | 4.0 | 37.5 | 7.0 | 0.0073 | 0.0125 | 0.0168 | 0.520/20 |
| AHRL800 | RF4997-000 | 8.0 | 8.0 | 16.0 | 16 | 100 | 4.3 | 40.0 | 8.0 | 0.0060 | 0.0105 | 0.0145 | 0.823/18 |
| AHRL900 | RF4998-000 | 9.0 | 9.0 | 18.0 | 16 | 100 | 5.0 | 45.0 | 9.0 | 0.0046 | 0.0075 | 0.0098 | 0.823/18 |
| AHRL1000 | RF4999-000 | 10.0 | 10.0 | 20.0 | 16 | 100 | 5.4 | 50.0 | 10.0 | 0.0042 | 0.0068 | 0.0090 | 0.823/18 |
| AHRL1100 | RF5000-000 | 11.0 | 11.0 | 22.0 | 16 | 100 | 5.7 | 55.0 | 11.2 | 0.0038 | 0.0063 | 0.0083 | 0.823/18 |
| AHRL1200 | RF5001-000 | 12.0 | 12.0 | 24.0 | 16 | 100 | 6.0 | 60.0 | 12.5 | 0.0035 | 0.0058 | 0.0077 | 0.823/18 |
| AHRL1300 | RF5002-000 | 13.0 | 13.0 | 26.0 | 16 | 100 | 6.4 | 65.0 | 14.0 | 0.0033 | 0.0053 | 0.0070 | 0.823/18 |
| AHRL1400 | RF5003-000 | 14.0 | 14.0 | 28.0 | 16 | 100 | 6.7 | 70.0 | 16.0 | 0.0031 | 0.0048 | 0.0064 | 0.823/18 |
| AHRL1500 | RF5004-000 | 15.0 | 15.0 | 30.0 | 16 | 100 | 7.0 | 75.0 | 18.0 | 0.0029 | 0.0043 | 0.0056 | 0.823/18 |

Typical Time-to-Trip Curves at 25° C



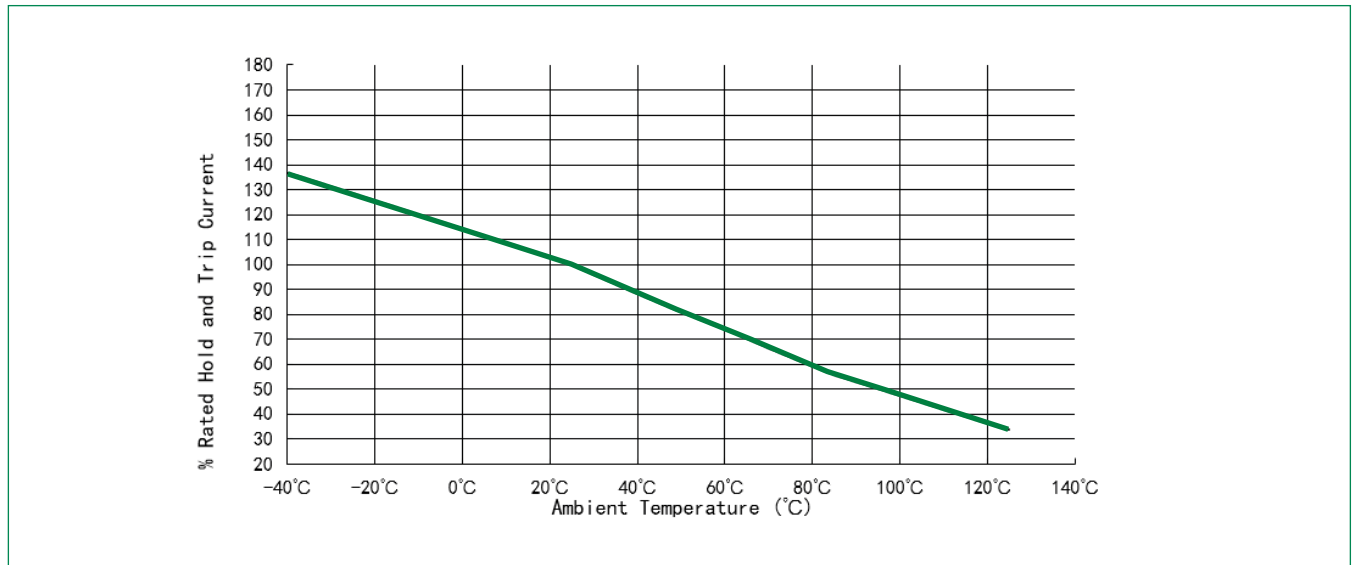
PolySwitch® Resettable PTCs

Radial Leded > AHRL Series

Temperature Derating

| Part Number | Maximum Ambient Temperature | | | | | | | | | | |
|-------------|--------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | -40° C | -20° C | 0° C | 20° C | 25° C | 40° C | 50° C | 60° C | 70° C | 85° C | 125° C |
| | AHRL (High Temperature) – 16 V | | | | | | | | | | |
| AHRL350 | 4.85 | 4.45 | 4.05 | 3.60 | 3.50 | 3.15 | 2.90 | 2.65 | 2.40 | 2.00 | 1.30 |
| AHRL400 | 5.60 | 5.10 | 4.70 | 4.10 | 4.00 | 3.60 | 3.30 | 3.00 | 2.70 | 2.30 | 1.45 |
| AHRL450 | 6.20 | 5.60 | 5.10 | 4.60 | 4.50 | 4.00 | 3.70 | 3.35 | 3.00 | 2.50 | 1.60 |
| AHRL500 | 6.85 | 6.25 | 5.65 | 5.15 | 5.00 | 4.45 | 4.05 | 3.70 | 3.30 | 2.80 | 1.75 |
| AHRL550 | 7.50 | 6.90 | 6.20 | 5.70 | 5.50 | 4.90 | 4.40 | 4.00 | 3.70 | 3.10 | 1.90 |
| AHRL600 | 8.20 | 7.50 | 6.80 | 6.20 | 6.00 | 5.30 | 4.90 | 4.40 | 4.00 | 3.30 | 2.05 |
| AHRL650 | 8.80 | 8.10 | 7.40 | 6.70 | 6.50 | 5.70 | 5.30 | 4.80 | 4.30 | 3.60 | 2.20 |
| AHRL700 | 9.50 | 8.70 | 8.00 | 7.20 | 7.00 | 6.20 | 5.60 | 5.20 | 4.70 | 3.90 | 2.35 |
| AHRL750 | 10.20 | 9.40 | 8.60 | 7.70 | 7.50 | 6.60 | 6.10 | 5.60 | 5.00 | 4.10 | 2.50 |
| AHRL800 | 10.90 | 10.00 | 9.10 | 8.20 | 8.00 | 7.10 | 6.40 | 5.90 | 5.30 | 4.40 | 2.70 |
| AHRL900 | 12.20 | 11.20 | 10.20 | 9.30 | 9.00 | 8.00 | 7.20 | 6.60 | 6.00 | 5.00 | 3.00 |
| AHRL1000 | 13.60 | 12.50 | 11.40 | 10.30 | 10.00 | 8.80 | 8.10 | 7.40 | 6.60 | 5.50 | 3.30 |
| AHRL1100 | 14.90 | 13.70 | 12.50 | 11.30 | 11.00 | 9.70 | 8.80 | 8.10 | 7.30 | 6.10 | 3.60 |
| AHRL1200 | 16.30 | 15.00 | 13.65 | 12.35 | 12.00 | 10.55 | 9.65 | 8.85 | 7.95 | 6.65 | 3.90 |
| AHRL1300 | 17.70 | 16.30 | 14.80 | 13.40 | 13.00 | 11.40 | 10.50 | 9.60 | 8.60 | 7.20 | 4.20 |
| AHRL1400 | 19.10 | 17.60 | 15.95 | 14.45 | 14.00 | 12.25 | 11.35 | 10.35 | 9.25 | 7.75 | 4.50 |
| AHRL1500 | 20.30 | 18.80 | 17.10 | 15.50 | 15.00 | 13.10 | 12.20 | 11.10 | 9.70 | 8.10 | 4.80 |

Temperature Derating Curve



PolySwitch® Resettable PTCs

Radial Leaded > AHRL Series

Physical Specifications

| | |
|----------------------------------|---|
| Lead Material | AHRL350 to AHRL400: Tin-plated Copper, 0.320 mm ² (22 AWG), ø 0.64 mm/0.025 in |
| | AHRL450 to AHRL750: Tin-plated Copper 0.520 mm ² (20 AWG), ø 0.81 mm/0.032 in |
| | AHRL800 to AHRL1500: Tin-plated Copper 0.823 mm ² (18 AWG), ø 1.0 mm/0.040 in |
| Soldering Characteristics | Solderability per ANSI/J-STD 002 Category 3 |
| Solder Heat Withstand | Per IEC 60068-2-20, Test Tb, Method 1; Can withstand 10s at 260° C ± 5° C |
| Insulating Material | Cured, Flame-retardant Epoxy Polymer; Meets ANSI/UL 94 V-0 |
| Operation Temperature | -40° C~125° C |

Notes

See AEC-Q200 for other physical characteristics.
 Devices are not designed to be placed through a reflow process.

Environmental Specifications

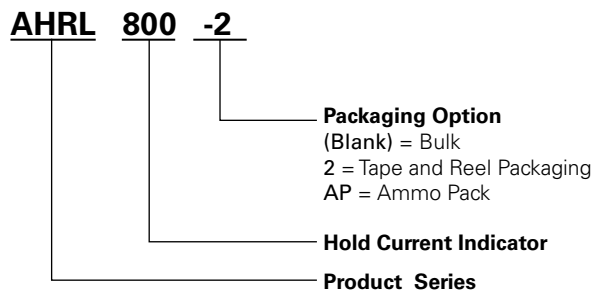
| | | |
|---------------------------|---------------------------|-----------|
| Passive Aging | 70° C, 1000 hrs | ±5% |
| | 85° C, 1000 hrs | ±5% |
| Humidity Aging | 85° C, 85% R.H., 1000 hrs | ±5% |
| Thermal Shock | 125° C, -40° C 10 times | ±5% |
| Solvent Resistance | MIL-STD-202, Method 215 | No change |

Note

See AEC-Q200 for other environmental specifications.

| | |
|----------------------------------|--|
| Moisture Resistance Level | Level 1, J-STD-020 |
| Storage Conditions | 40°C max, 70% RH max; devices should remain in original sealed bags prior to use. Devices may not meet specified values if these storage conditions are exceeded. |

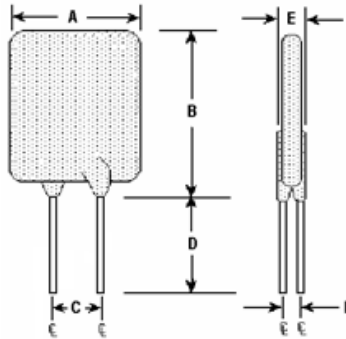
Part Numbering System



PolySwitch® Resettable PTCs

Radial Leded > AHRL Series

Product Dimension



| Part Number | Dimensions in Millimeters (Inches) | | | | | | | | | | |
|---------------------------------------|------------------------------------|----------------|-----|----------------|---------------|----------------|---------------|-----|-----|---------------|---------------|
| | A | | B | | C | | D | | E | | F |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Typ |
| AHRL (High Temperature) – 16 V | | | | | | | | | | | |
| AHRL350 | – | 8.4 (0.33) | – | 12.4 (0.49) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | – | – | 3.0 (0.12) | 1.0 (0.04) |
| AHRL400 | – | 8.4 (0.33) | – | 13.4 (0.53) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | – | – | 3.0 (0.12) | 1.0 (0.04) |
| AHRL450 | – | 8.4 (0.33) | – | 14.1 (0.56) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | – | – | 3.0 (0.12) | 1.2 (0.05) |
| AHRL500 | – | 9.2 (0.36) | – | 14.1 (0.56) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | – | – | 3.0 (0.12) | 1.2 (0.05) |
| AHRL550 | – | 9.4 (0.37) | – | 14.4 (0.57) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | – | – | 3.0 (0.12) | 1.2 (0.05) |
| AHRL600 | – | 8.75 (0.34) | – | 16.0 (0.63) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | – | – | 3.0 (0.12) | 1.2 (0.05) |
| AHRL650 | – | 10.7 (0.42) | – | 17.4 (0.69) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | – | – | 3.0 (0.12) | 1.2 (0.05) |
| AHRL700 | – | 11.8 (0.46) | – | 17.4 (0.69) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | – | – | 3.0 (0.12) | 1.2 (0.05) |
| AHRL750 | – | 11.8 (0.46) | – | 19.0 (0.75) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | – | – | 3.0 (0.12) | 1.2 (0.05) |
| AHRL800 | – | 12.8 (0.50) | – | 20.4 (0.80) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | – | – | 3.6 (0.14) | 1.4 (0.06) |
| AHRL900 | – | 14.4 (0.57) | – | 21.4 (0.84) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | – | – | 3.6 (0.14) | 1.4 (0.06) |
| AHRL1000 | – | 14.4 (0.57) | – | 22.4 (0.88) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | – | – | 3.6 (0.14) | 1.4 (0.06) |
| AHRL1100 | – | 17.4 (0.69) | – | 22.4 (0.88) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | – | – | 3.6 (0.14) | 1.4 (0.06) |
| AHRL1200 | – | 17.4 (0.69) | – | 23.4 (0.92) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | – | – | 3.6 (0.14) | 1.4 (0.06) |
| AHRL1300 | – | 17.4 (0.69) | – | 24.8 (0.98) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | – | – | 3.6 (0.14) | 1.4 (0.06) |
| AHRL1400 | – | 17.4 (0.69) | – | 26.4 (1.04) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | – | – | 3.6 (0.14) | 1.4 (0.06) |
| AHRL1500 | – | 18.4 (0.72) | – | 26.4 (1.04) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | – | – | 3.6 (0.14) | 1.4 (0.06) |

PolySwitch® Resettable PTCs

Radial Leaded > AHRL Series

Packaging and Marking Information

| Part Number | Bag Quantity | Tape and Reel Quantity | Ammo Pack Quantity | Standard Package Quantity | Part Marking | Agency Recognition |
|-------------|--------------------------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| | AHRL (High Temperature) – 16 V | | | | | |
| AHRL350 | 500 | — | — | 10,000 | L3.5 | UL |
| AHRL350-2 | — | 2,500 | — | 12,500 | L3.5 | UL |
| AHRL350-AP | — | — | 2,500 | 12,500 | L3.5 | UL |
| AHRL400 | 500 | — | — | 10,000 | L4 | UL |
| AHRL400-2 | — | 2,500 | — | 12,500 | L4 | UL |
| AHRL400-AP | — | — | 2,500 | 12,500 | L4 | UL |
| AHRL450 | 500 | — | — | 10,000 | L4.5 | UL |
| AHRL450-2 | — | 2,500 | — | 12,500 | L4.5 | UL |
| AHRL450-AP | — | — | 2,500 | 12,500 | L4.5 | UL |
| AHRL500 | 500 | — | — | 10,000 | L5 | UL |
| AHRL500-2 | — | 2,500 | — | 12,500 | L5 | UL |
| AHRL500-AP | — | — | 2,500 | 12,500 | L5 | UL |
| AHRL550 | 500 | — | — | 10,000 | L5.5 | UL |
| AHRL550-2 | — | 2,500 | — | 12,500 | L5.5 | UL |
| AHRL550-AP | — | — | 2,500 | 12,500 | L5.5 | UL |
| AHRL600 | 500 | — | — | 10,000 | L6 | UL |
| AHRL600-2 | — | 2,500 | — | 12,500 | L6 | UL |
| AHRL600-AP | — | — | 2,500 | 12,500 | L6 | UL |
| AHRL650 | 500 | — | — | 10,000 | L6.5 | UL |
| AHRL650-2 | — | 2,500 | — | 12,500 | L6.5 | UL |
| AHRL650-AP | — | — | 2,500 | 12,500 | L6.5 | UL |
| AHRL700 | 500 | — | — | 10,000 | L7 | UL |
| AHRL700-2 | — | 1,500 | — | 7,500 | L7 | UL |
| AHRL700-AP | — | — | 1,500 | 7,500 | L7 | UL |
| AHRL750 | 500 | — | — | 10,000 | L7.5 | UL |
| AHRL750-2 | — | 1,500 | — | 7,500 | L7.5 | UL |
| AHRL750-AP | — | — | 1,500 | 7,500 | L7.5 | UL |
| AHRL800 | 500 | — | — | 10,000 | L8 | UL |
| AHRL800-2 | — | 1,500 | — | 7,500 | L8 | UL |
| AHRL800-AP | — | — | 1,500 | 7,500 | L8 | UL |

Note

These devices are intended for use in automotive applications.

PolySwitch® Resettable PTCs

Radial Leaded > AHRL Series

Packaging and Marking Information

| Part Number | Bag Quantity | Tape and Reel Quantity | Ammo Pack Quantity | Standard Package Quantity | Part Marking | Agency Recognition |
|-------------|--------------------------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| | AHRL (High Temperature) – 16 V | | | | | |
| AHRL900 | 250 | — | — | 5,000 | L9 | UL |
| AHRL900-2 | — | 1,500 | — | 7,500 | L9 | UL |
| AHRL900-AP | — | — | 1,500 | 7,500 | L9 | UL |
| AHRL1000 | 250 | — | — | 5,000 | L10 | UL |
| AHRL1000-2 | — | 1,500 | — | 7,500 | L10 | UL |
| AHRL1000-AP | — | — | 1,500 | 7,500 | L10 | UL |
| AHRL1100 | 250 | — | — | 5,000 | L11 | UL |
| AHRL1100-2 | — | 1,000 | — | 5,000 | L11 | UL |
| AHRL1100-AP | — | — | 1,000 | 5,000 | L11 | UL |
| AHRL1200 | 250 | — | — | 5,000 | L12 | UL |
| AHRL1200-2 | — | 1,000 | — | 5,000 | L12 | UL |
| AHRL1200-AP | — | — | 1,000 | 5,000 | L12 | UL |
| AHRL1300 | 250 | — | — | 5,000 | L13 | UL |
| AHRL1300-2 | — | 1,000 | — | 5,000 | L13 | UL |
| AHRL1300-AP | — | — | 1,000 | 5,000 | L13 | UL |
| AHRL1400 | 250 | — | — | 5,000 | L14 | UL |
| AHRL1400-2 | — | 1,000 | — | 5,000 | L14 | UL |
| AHRL1400-AP | — | — | 1,000 | 5,000 | L14 | UL |
| AHRL1500 | 250 | — | — | 5,000 | L15 | UL |
| AHRL1500-2 | — | 1,000 | — | 5,000 | L15 | UL |
| AHRL1500-AP | — | — | 1,000 | 5,000 | L15 | UL |

Note

These devices are intended for use in automotive applications.

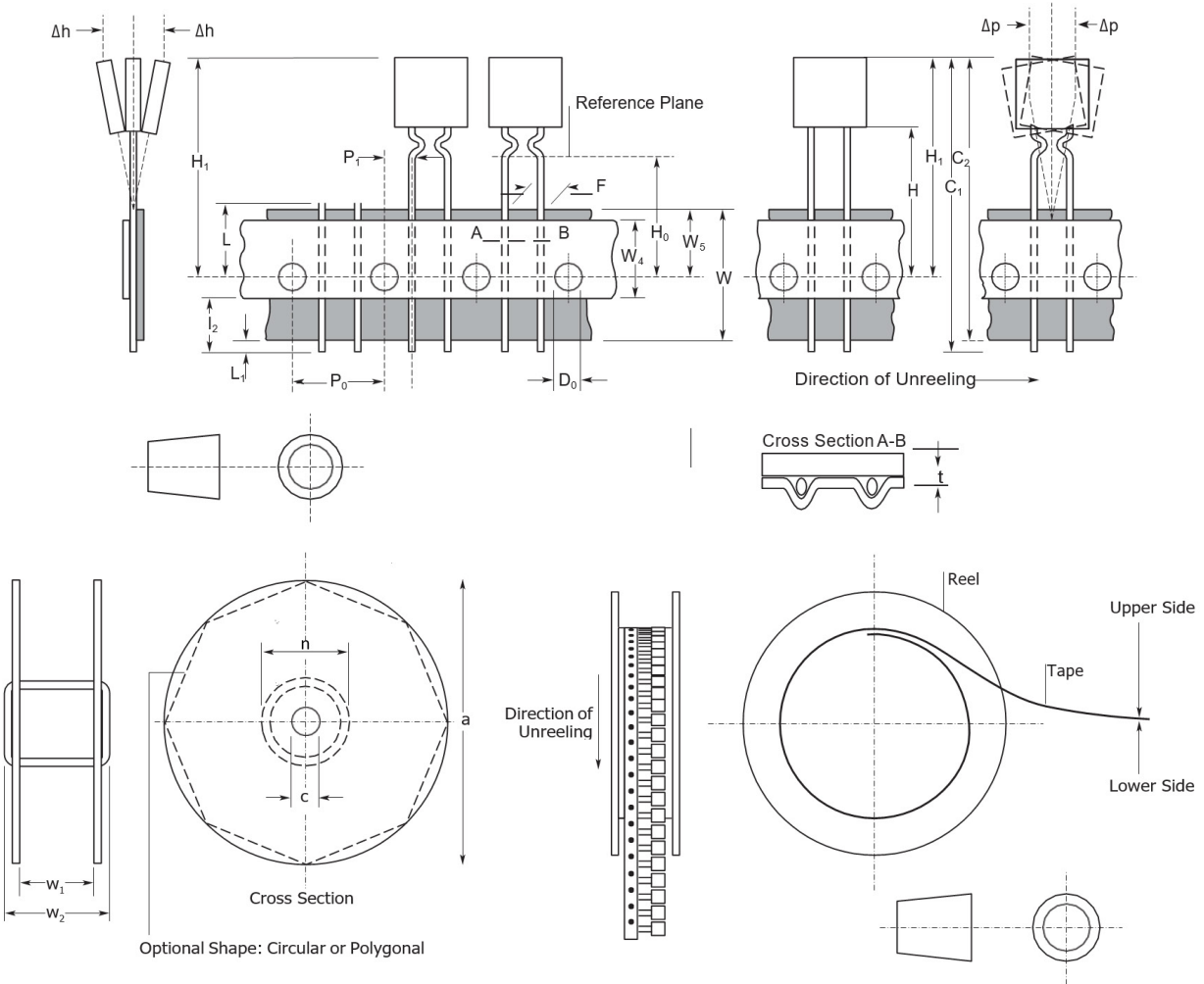
Warning

- Users should independently evaluate the suitability of and test each product selected for their own application.
- Operation beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.
- These devices are intended for protection against damage caused by occasional overcurrent or overtemperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- Contamination of the PPTC material with certain silicone-based oils or some aggressive solvents can adversely impact the performance of the devices.
- Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- PPTC devices are not recommended for installation in applications where the device is constrained such that its PTC properties are inhibited, for example in rigid potting materials or in rigid housings, which lack adequate clearance to accommodate device expansion.
- Operation in circuits with a large inductance can generate a circuit voltage (Ldi/dt) above the rated voltage of the device.

PolySwitch® Resettable PTCs

Radial Ledged > AHRL Series

Tape and Reel Specifications



Note
 AHRL devices are available in tape and reel packaging per EIA468-B/IEC286-2 and EIA 481-2 standards.

PolySwitch® Resettable PTCs

Radial Leded > AHRL Series

| Description | EIA Mark | Dimension (mm) | Tolerance |
|---|----------------------|----------------|------------|
| Carrier Tape Width | W | 18.0 | -0.5/+1.0 |
| Hold Down Tape Width | W₄ | 11.0 | Minimum |
| Top Distance between Tape Edges | W₆ | 3.0 | Maximum |
| Sprocket Hole Position | W₅ | 9.0 | -0.5/+0.75 |
| Sprocket Hole Diameter | D₀ | 4.0 | ±0.2 |
| Abscissa to plane (Straight lead) (AHRL350 to AHRL1500) | H | 18.5 | ±2.5 |
| Abscissa to Plane (Kinked Lead) (AHRL350 to AHRL1500) | H₀ | 16.0 | ±0.5 |
| Abscissa to Top (AHRL350 to AHRL600) | H₁ | 32.2 | Maximum |
| Abscissa to Top (AHRL650 to AHRL1500*) | H₁ | 45.0 | Maximum |
| Overall Width with Lead Protrusion (AHRL350 to AHRL600) | C₁ | 43.2 | Maximum |
| Overall Width with Lead Protrusion (AHRL650 to AHRL1500) | C₁ | 55.0 | Maximum |
| Overall Width without Lead Protrusion (AHRL350 to AHRL600) | C₂ | 42.5 | Maximum |
| Overall Width without Lead Protrusion (AHRL650 to AHRL1500) | C₂ | 54.0 | Maximum |
| Lead Protrusion | L₁ | 1.0 | Maximum |
| Protrusion of Cut-out | L | 11.0 | Maximum |
| Protrusion Beyond Hold-Down Tape | l₂ | Not specified | — |
| Sprocket Hole Pitch | P₀ | 12.7 | ± 0.3 |
| Device Pitch (AHRL350 to AHRL650) | — | 12.7 | ± 0.3 |
| Device Pitch (AHRL700 to AHRL1500) | — | 25.4 | ± 0.6 |
| Pitch Tolerance | — | 20 consec. | ± 0.1 |
| Tape Thickness | t | 0.9 | Maximum |
| Overall Tape and Lead Thickness (AHRL350 to AHRL750*) | t₁ | 2.0 | Maximum |
| Overall Tape and Lead Thickness (AHRL800 to AHRL1500*) | t₁ | 2.3 | Maximum |
| Splice Sprocket Hole Alignment | — | 0 | ± 0.3 |
| Body Lateral Deviation | Δ_h | 0 | ± 1.0 |
| Body Tape Plane Deviation | Δ_p | 0 | ± 1.3 |
| Ordinate to Adjacent Component Lead (AHRL350 to AHRL800) | P₁ | 3.81 | ± 0.7 |
| Ordinate to Adjacent Component Lead (AHRL900 to AHRL1500) | P₁ | 7.62 | ± 0.7 |
| Lead Spacing (AHRL350 to AHRL800*) | F | 5.05 | ± 0.75 |
| Lead Spacing (AHRL900 to AHRL1500*) | F | 10.15 | ± 0.75 |
| Reel Width (AHRL350 to AHRL600) | w₂ | 56.0 | Maximum |
| Reel Width(AHRL650 to AHRL1500*) | w₂ | 63.5 | Maximum |
| Reel Diameter | A | 370.0 | Maximum |
| Arbor Hold Diameter | c | 26.0 | ±12.0 |
| Core Diameter* | n | 91.0 | Maximum |
| Box | — | 64/372/362 | Maximum |
| Consecutive Missing Places | — | None | — |
| Empty Places per Reel | — | 0.1% | Maximum |

Note
Differs from EIA specification.

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at <https://www.littelfuse.com/legal/disclaimers/polyswitch-products.aspx>.