

| 4 | 9.3 1.2 (x2) |
|-----|-----------------|
| 5.5 | 7.4 9.8 |

| Revision: | Date: | Description: | Prepared: | Notes: | | | | | | |
|-----------|------------|-----------------|---|--|--|--|--------------------------------------|-------|--------------|--|
| Α | 09/20/2018 | Initial release | | | | | L | NSIL | .ITY | |
| | | | Verified: | Function test: no open, no short circuit, no intermittent | | tel 1.541.323.3228 800 877 fax 1.541.323.4202 web ten | | | 7.670.7118 | |
| | | | Dimensions are in | | | | 10x 1.541.525.4202 Web terisinty.com | | | |
| | | | millimeters. Tolerances: | Description. | | | Part number: | | | |
| | | | < 1.0: ±0.1 mm | 1.0: ±0.1 mm Connector, dc jack 3.5x1.1 mm, 3C, PCB mount, 90°, silver plated, SMT | | Α | 54-00 |)0150 | | |
| | | | 1.0 to 10.0: ±0.2 mm > 10.0: ±0.3 mm | | | Scale: | 4:1 | | Sheet 1 of 3 | |
| | | A | | | | | | | | |

5 4 3 2

Ratings

Voltage: 48 V Current: 5.0 A

Operating Temperature Range

-40 to 85 °C, relative humidity of 85% or less

Materials

(1) Insulator: Nylon 46, black

(2) Spring contact: phosphor bronze, silver plated (3) Terminal: brass, silver plated (4) Spring contact: phosphor bronze, silver plated

(5) center pin: copper alloy, silver plated

Electrical Requirements

Dielectric strength: 1 min @ 250 Vac

Insulation resistance: 100 MΩ @ 500 Vdc minimum

Contact resistance: $50 \text{ m}\Omega$ or maximum

Mechanical Requirements

Insertion force: 0.3-3.0 kgf Withdrawal force: 0.2-2.0 kgf

Life cycle: 5000 mating cycles while maintaining contact resistance: 100 m Ω maximum, insulation resistance: 50 M Ω

minimum, withstand voltage: 250 Vac, 1 min.

Terminal strength: 300 gf applied to the terminal for 15 seconds in any direction while maintaining electrical characteristics and without damage or excessive looseness of terminals.

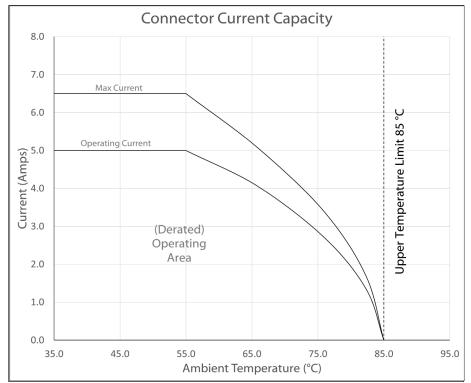
Soldering

Solderability: 75% minimum coverage when terminals dipped 2mm in 255 ±5 °C solder bath for 3 ±0.5 seconds

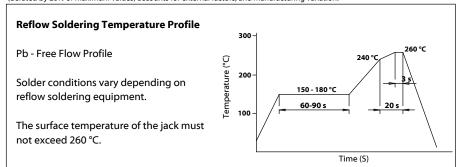
Solder bath durability: no deformation when immersed in 260 \pm 5 °C up to surface of the board 1.6 mm for 10 seconds or less

Solder iron durability: no deformation when exposed to 350 \pm 10 $^{\circ}$ C for 3 ±0.5 seconds

Environmental Requirements Cold test: -25 ±3 °C for 48 hours without deformation Heat test: 85 ± 2 °C, for 48 hours without deformation Humidity test: 40 ± 2 °C, relative humidity 90-95% for 48 hours without deformation

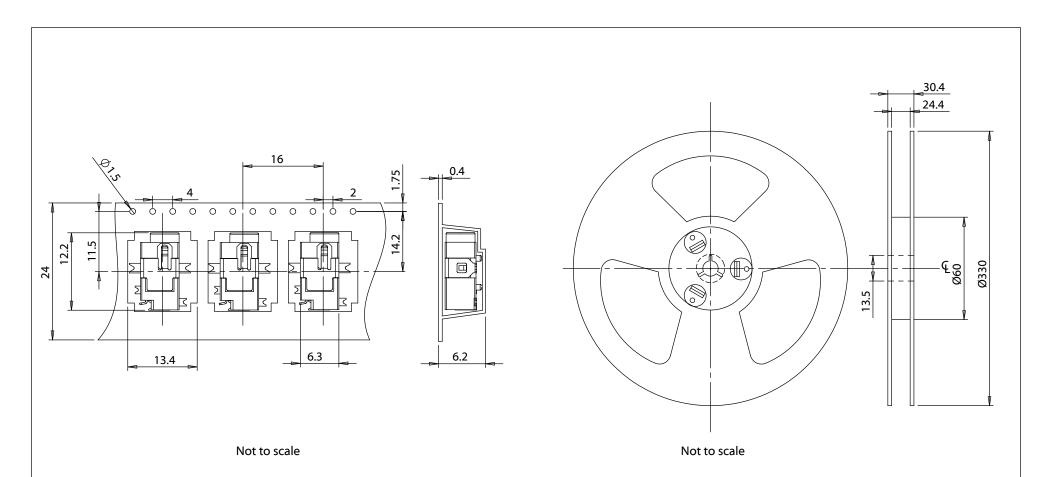


Testing based on IEC 60512-5-2. Max current curve generated with isolated test article under controlled environmental conditions, and does not take into account external factors such as housings, mating cables, or other circuitry. Operating current curve (derated by 20% of maximum values) accounts for external factors, and manufacturing variation.



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| Α | 09/20/2018 | Initial release | From strices to see the second second size of the | | TENSILITY | | | | | |
| | | | Verified: Dimensions are in millimeters. Tolerances: < 1.0: ±0.1 mm 1.0 to 10.0: ±0.2 mm > 10.0: ±0.3 mm | Function test: no open, no short circuit, no intermittent | tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com | | | | | |
| | | | | | | | | | | |
| | | | | Description: | Size: | Part number: | | | | |
| | | | | < 1.0: ±0.1 mm | Connector, dc jack 3.5x1.1 mm, 3C, PCB mount, 90°, | Α | А 54-00150 | | | |
| | | | | silver plated, SMT | Scale | : 4:1 Sheet 2 of 3 | | | | |

5



Packaging details: 300 pcs. per reel

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| | | | 1.0 to 10.0: ±0.2 mm > 10.0: ±0.3 mm | silver plated, SMT | | Scale: | : 4:1 | | Sheet 3 of 3 | | |
| | | 5 | 1 | 3 | 2 | | J | | 1 | | |