



SERIES: PTN15 | DESCRIPTION: ROTARY POTENTIOMETER

FEATURES

- 15mm
- carbon element
- dust proof enclosure
- multiple rotor options
- linear, logarithmic, and reverse logarithmic tapers



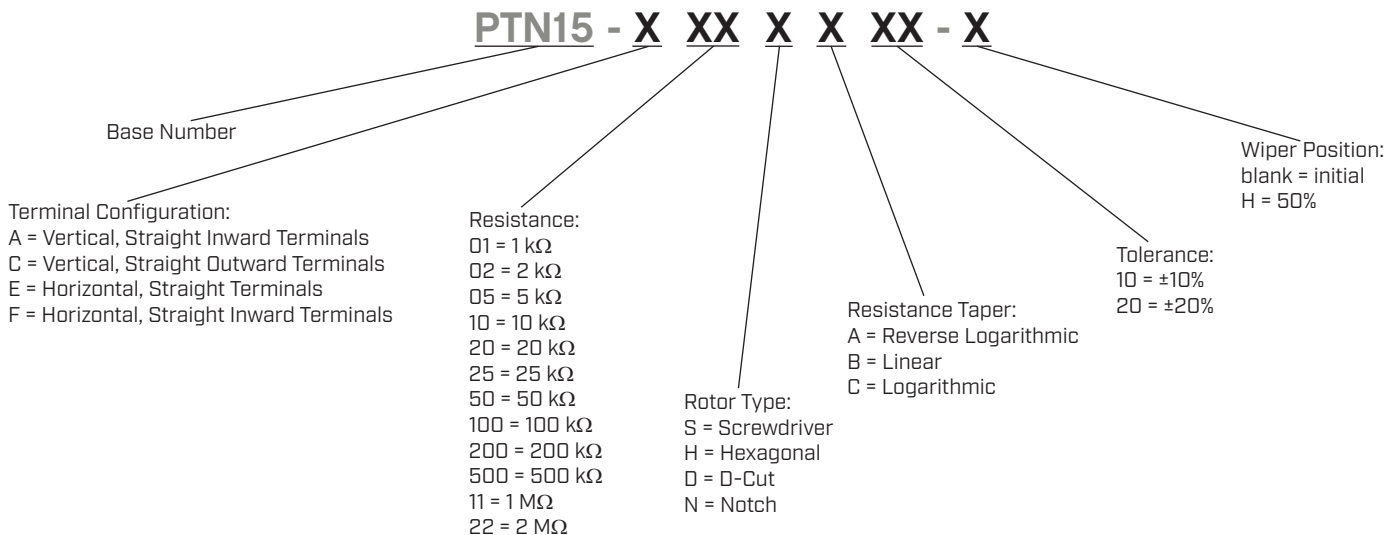
SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|-------------------------------|--|-----|-----|-------|-------|
| maximum operating voltage | | | | 300 | Vdc |
| power rating | at 70°C | | | 0.2 | W |
| taper | linear, logarithmic, and reverse logarithmic | | | | |
| standard resistance range | see Resistance Table | 1.0 | | 2,000 | kΩ |
| standard resistance tolerance | ±10% or ±20%, see Part Number Key | | | | |
| residual resistance | | | | 10 | Ω |
| sliding noise | | | | 68 | mV |
| operating temperature | | -10 | | 70 | °C |
| hand soldering | for 3 seconds max | | | 350 | °C |
| wave soldering | for 5±1 seconds | 255 | 260 | 265 | °C |
| RoHS | yes | | | | |

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|-------------------|------------------------|-------|------|--------|--------|
| mechanical angle | | 255 | 265 | 275 | ° |
| rotational torque | | 10 | | 80 | gf-cm |
| stop strength | | 1,000 | | | gf-cm |
| rotational life | | | | 10,000 | cycles |
| weight | | 1.29 | 1.32 | 1.35 | g |

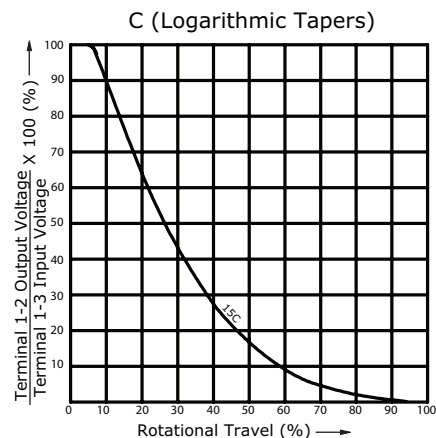
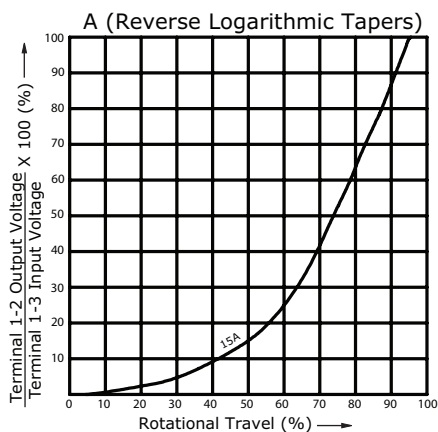
PART NUMBER KEY



SCHEMATIC/TAPERS

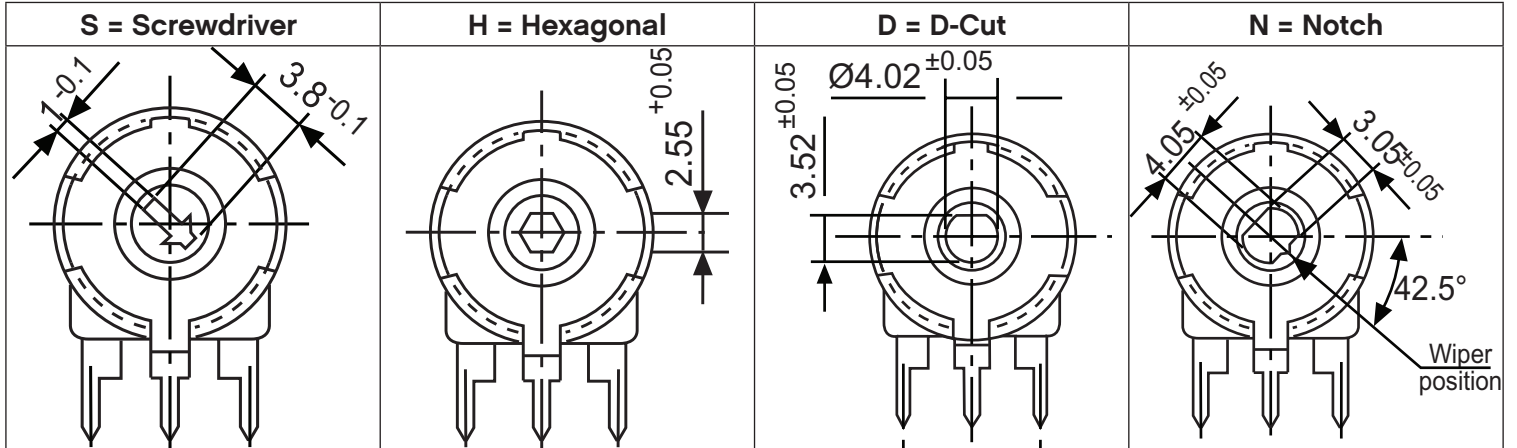


| Resistance Table | |
|------------------|------|
| Resistance [KΩ] | Code |
| 1 | 01 |
| 2 | 02 |
| 5 | 05 |
| 10 | 10 |
| 20 | 20 |
| 25 | 25 |
| 50 | 50 |
| 100 | 100 |
| 200 | 200 |
| 500 | 500 |
| 1,000 | 11 |
| 2,000 | 22 |



ROTOR TYPE

units: mm
tolerance: ± 0.3 mm
unless otherwise noted

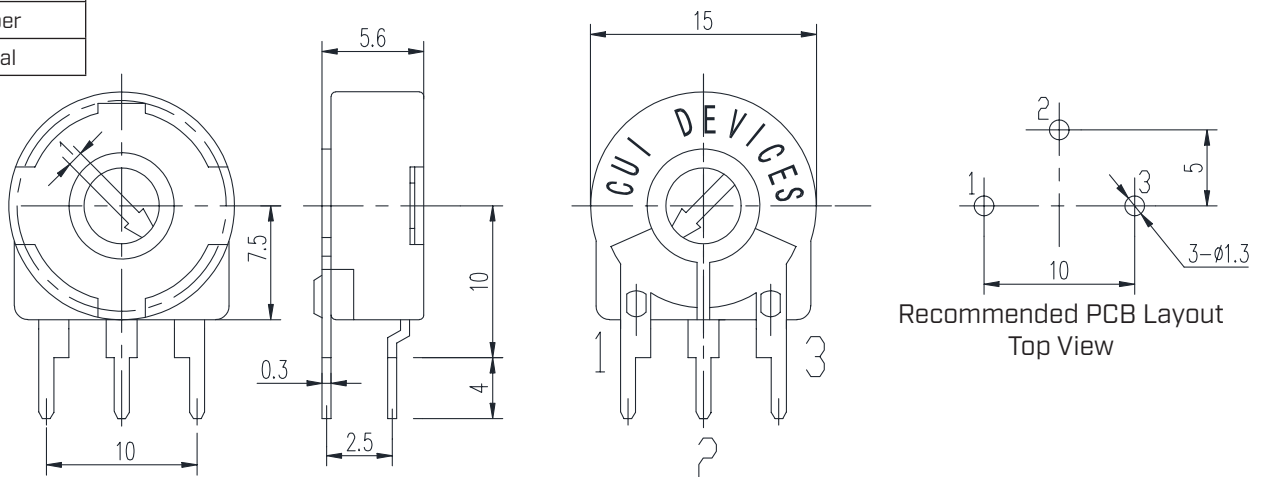


MECHANICAL DRAWING (VERTICAL, STRAIGHT INWARD TERMINALS)

units: mm
tolerance:
 $X \leq 10$: ± 0.3 mm
 $10 < X \leq 30$: ± 0.5 mm
 $30 < X \leq 100$: ± 1.0 mm
unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|-------------|--------------|---------------|
| A | housing | PA6 (UL94HB) | black |
| B | terminals | steel | tin |
| C | reed | tin bronze | |

| TERMINAL CONNECTIONS | |
|----------------------|-------------|
| TERMINAL | DESCRIPTION |
| 1 | Initial |
| 2 | Wiper |
| 3 | Final |

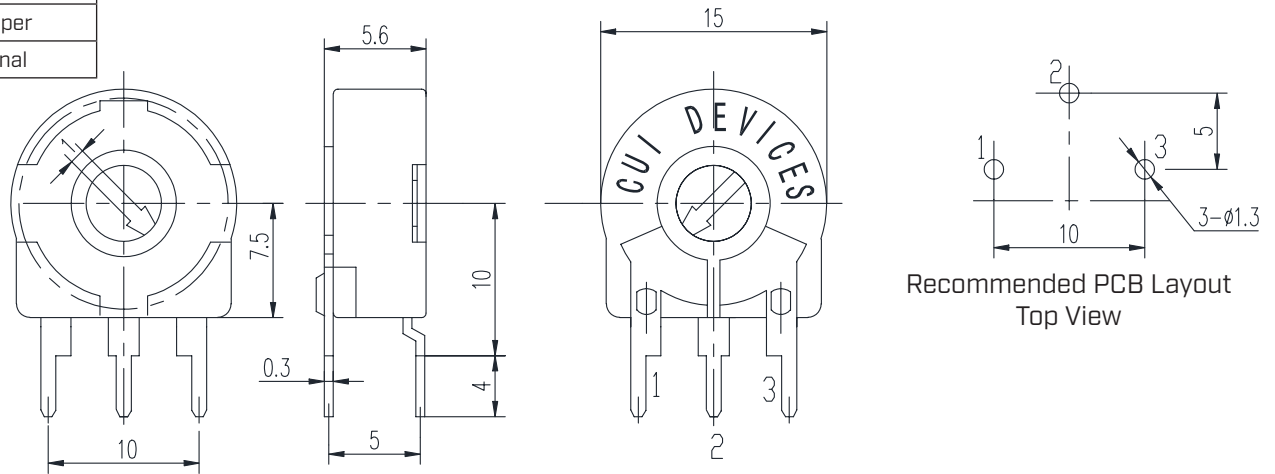


MECHANICAL DRAWING (VERTICAL, STRAIGHT OUTWARD TERMINALS)

units: mm
 tolerance:
 $X \leq 10$: ± 0.3 mm
 $10 < X \leq 30$: ± 0.5 mm
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| TERMINAL CONNECTIONS | |
|----------------------|-------------|
| TERMINAL | DESCRIPTION |
| 1 | Initial |
| 2 | Wiper |
| 3 | Final |

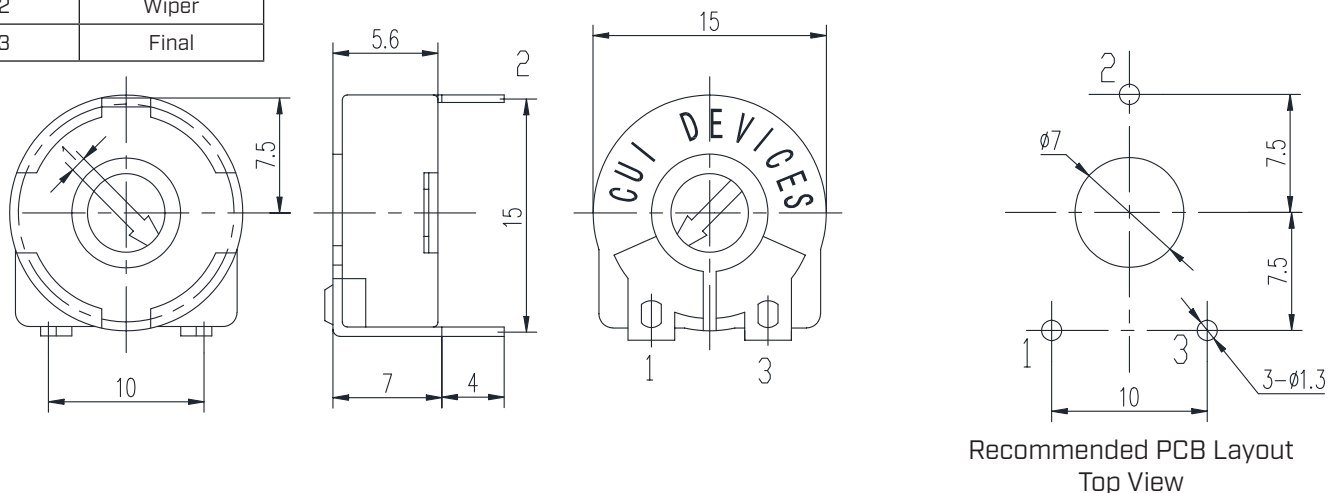


MECHANICAL DRAWING (HORIZONTAL, STRAIGHT TERMINALS)

units: mm
 tolerance:
 $X \leq 10$: ± 0.3 mm
 $10 < X \leq 30$: ± 0.5 mm
 $30 < X \leq 100$: ± 1.0 mm
 unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|-------------|--------------|---------------|
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| B | terminals | steel | tin |
| C | reed | tin bronze | |

| TERMINAL CONNECTIONS | |
|----------------------|-------------|
| TERMINAL | DESCRIPTION |
| 1 | Initial |
| 2 | Wiper |
| 3 | Final |

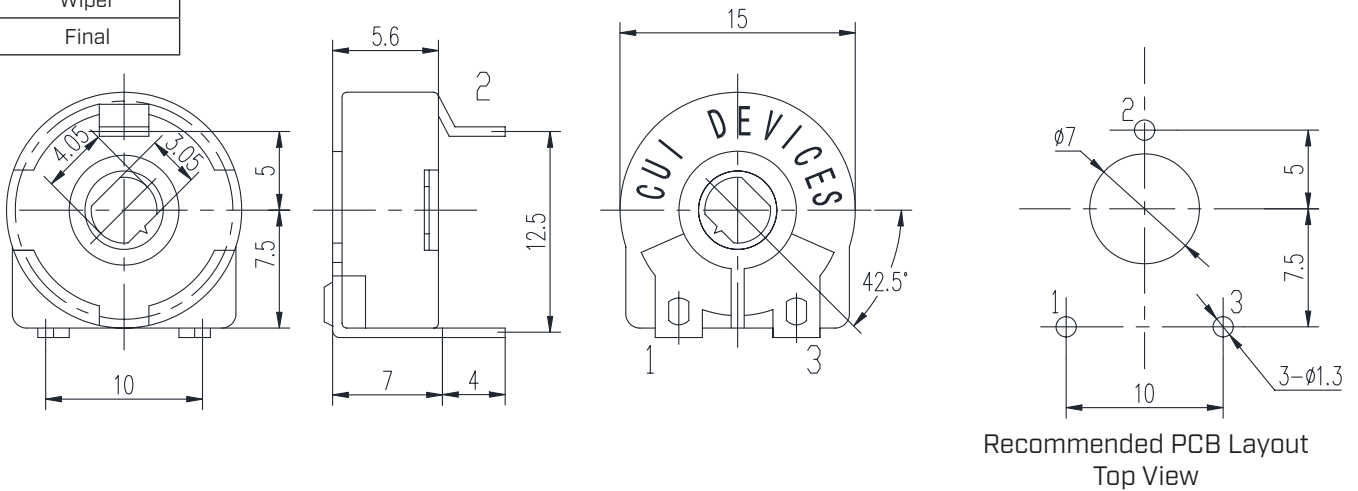


MECHANICAL DRAWING (HORIZONTAL, STRAIGHT INWARD TERMALS)

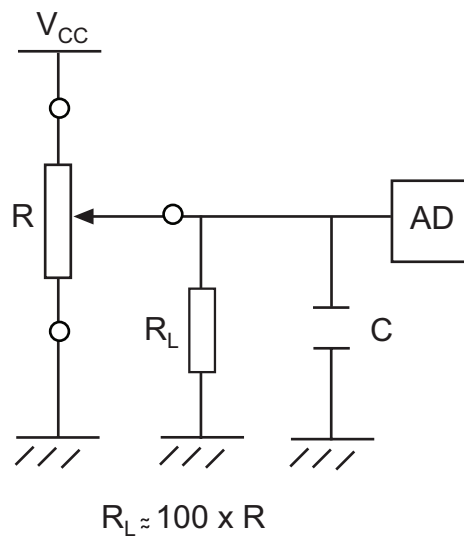
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| TERMINAL CONNECTIONS | |
|----------------------|-------------|
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RECOMMENDED CIRCUIT



POWER DERATING CURVE

