Type YP Series
Thermometrics PTC Thermistors

Description
Thermometrics YP series consists of a range of radially-wired PTC disc thermistors with silicone coating intended for use as a current limiting device.

Features
• Wide range of operating current & voltage levels
• Excellent stability
• Fail-safe operation
• Solid state
• High performance barium titanate ceramic
• Suitable for automatic PCB insertion

Applications
• Designed for general purpose over-current, overvoltage and direct over-temperature protection

Packaging
All types in the YP range are available loose-packed, as shown in the drawing. Devices are also available on bandolier (tape & reel).

To identify the packaging required, add suffix as follows:

Bandoliered ............................................ T
Loose-packed ........................................ N*

*only required for YPBL0055 and YPEL6250

Amphenol
Advanced Sensors
Electrical Specifications

**Tolerance on R25**
±25%

**Ambient Temperature Range**
at maximum voltage ................... 0 to +60°C  
at zero voltage ........................  -25 to +125°C

**Body Coating**
Silicone resin: black YP, green YQS

**Lead Wire Material**
Copper with exception for YPEL6250, copper clad steel

### Operating Voltage, Switch Temperature, Part Number, Replacement for R@25°C (±25%), Maximum Current without Tripping, Minimum Trip Current, Maximum Overload Current, Maximum Residual Current, D (max), T (max), H (max), d (nom), L (min)

<table>
<thead>
<tr>
<th>Operating Voltage, V&lt;sub&gt;max&lt;/sub&gt;</th>
<th>Switch Temperature, T&lt;sub&gt;s&lt;/sub&gt;, °C</th>
<th>Part Number</th>
<th>Replacement for R@25°C (±25%) Ω</th>
<th>Maximum Current without Tripping, I&lt;sub&gt;r&lt;/sub&gt;, mA</th>
<th>Minimum Trip Current, I&lt;sub&gt;t&lt;/sub&gt;, mA</th>
<th>Maximum Overload Current, I&lt;sub&gt;om&lt;/sub&gt;, mA</th>
<th>Maximum Residual Current, I&lt;sub&gt;res&lt;/sub&gt;, mA</th>
<th>D (max) mm</th>
<th>T (max) mm</th>
<th>H (max) mm</th>
<th>d (nom) mm</th>
<th>L (min) mm</th>
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<td>YPALL1.20N</td>
<td>1.2</td>
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