



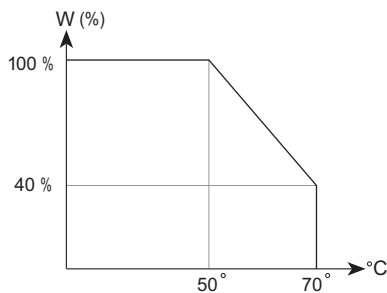
### FEATURES

- Designed for PT15V or PS15.
- Up to 16 high torque detents.
- High & low torque detents can be freely mixed.
- Detents configurable to specific positions in complex tapers.
- Resistive track dust proof enclosed.
- Also upon request:
  - Wiper positioned at 50% or fully clockwise.
  - Self extinguishable plastic UL 94V-0.
  - Cut track option (initial / final).
  - Special tapers.
  - Crimped terminals.

### MECHANICAL SPECIFICATIONS

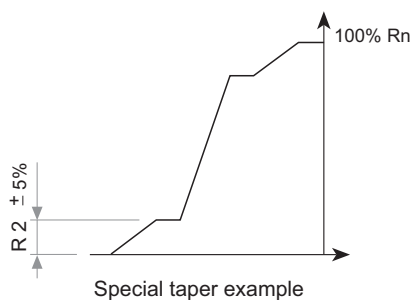
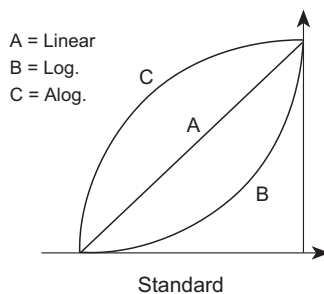
- Mechanical rotation angle:  $265^\circ \pm 5^\circ$   
 $240^\circ \pm 5^\circ$  available under drawing
- Electrical rotation angle:  $240^\circ \pm 20^\circ$
- Detent torque: customisable, up to 8.8 Ncm
- Life (cycles): up to 100K

### POWER RATING CURVE



### TAPERS

NOTE: Please note terminals disposition when ordering non linear curves.



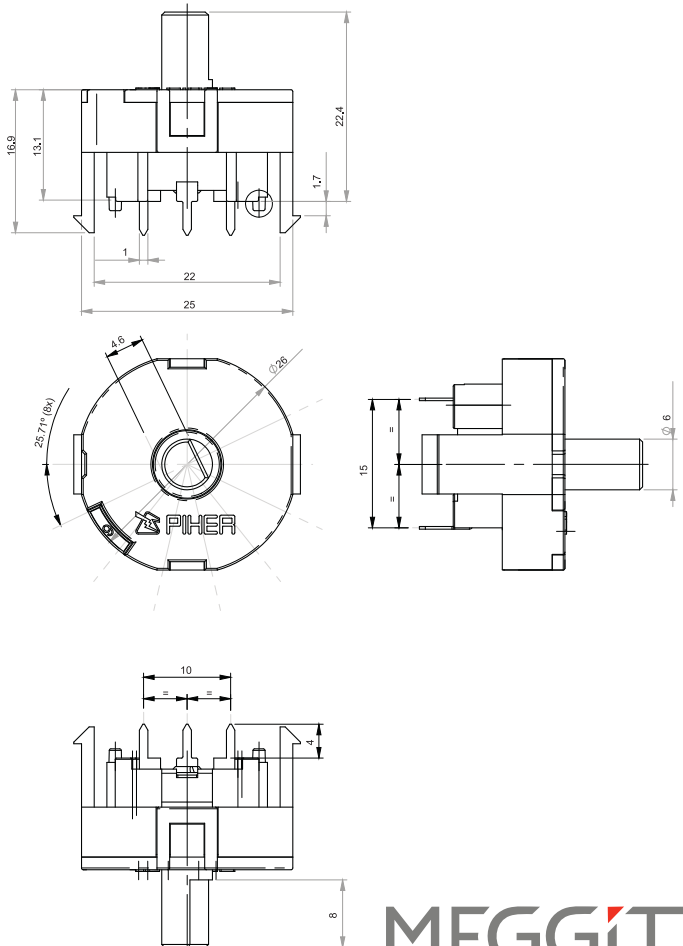
### ELECTRICAL SPECIFICATIONS

- Range of values (\*)  
 $100\Omega \leq R_n \leq 5\text{ M}$  (Decad. 1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)
- Tolerance (\*):  $100\Omega \leq R_n \leq 1\text{M}\Omega$  .....  $\pm 20\%$   
 $1\text{M}\Omega < R_n \leq 5\text{M}$  .....  $\pm 30\%$
- Max. Voltage: 250 VDC (lin) 125 VDC (no lin)
- Nominal Power 50°C (122°F) (see power rating curve)  
0.25 W (lin) 0.12 W (no lin)
- Taper (\*) (Log. & Alog. only  $R_n \geq 1\text{K}$ ) Lin ; Log; Alog.
- Residual resistance:  $\leq 0.5\% R_n$  (5Ω min.)
- Equivalent Noise Resistance:  $\leq 3\% R_n$  (3 Ω min.)
- Operating temperature\*\*:  $-25^\circ\text{C} + 70^\circ\text{C}$  ( $-13^\circ\text{F} + 158^\circ\text{F}$ )

\* Others upon request

\*\* Up to 85°C depending on application

### DIMENSIONS



# DCM-PT15: detented control

- High & low torque detents can be freely mixed
- Cut track option (initial / final)
- Detents configurable to specific positions in complex tapers.
- Designed for PT15V or PS15 (SMD)
- Wiper positioned at 50% or fully clockwise
- Resistive track dust proof enclosed
- Up to 16 high torque detents
- Also upon request:

Self extinguishable plastic UL 94V-0

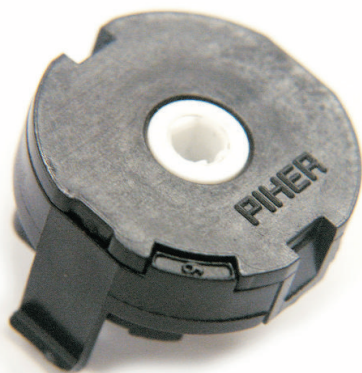
Wiper positioned at 50% or fully clockwise

Special Tapers

Crimped terminals

## Standard specifications

Detents number	up to 16
Tapers:	Linear; Log; Alog
Electrical rotation angle:	240°±20°
Mechanical Rotation angle:	265°±5°
Mechanical life:	up to 100K cycles
Operating temperature:	-25°C to +70°C
Detent Torque:	up to 8.8 Ncm



## Description

The DCM PT15 was designed to provide a cost effective solution for Appliance Controls. The combination of a PT15/PTC15/PS15 control potentiometer with a Detent Control Mechanism (DCM) affords the appliance designer the possibility to solder the potentiometer onto the Control PCB assembly and then, in a second operation, assemble the DCM over it. This removes the need to build Detents into the User front panel of the appliance, simplifying, and significantly reducing the total cost of the solution.

The detent torque can be modified according to Customer requirements (depending on the input dial's diameter, etc) as can the number and position of the detents.

## About PIHER-NACESA

Piher is a specialist manufacturer of position sensor and control solutions for the worldwide Land Vehicle and Appliance markets. Our products are typically employed for HVAC (Climate Control), AFL (Adaptive Front Lighting), Infotainment and Seat Memory & Heating in the Automotive industry and for Human Interface applications in the Consumer Electronics, Major Appliances, Power Tools and Industrial/Instrumentation markets.

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