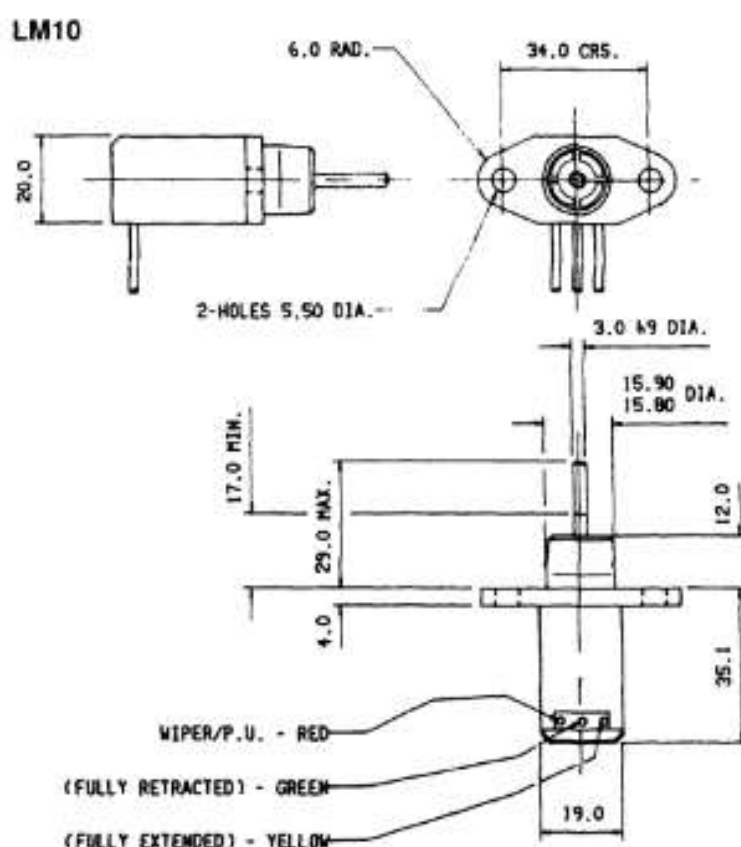




Datasheet

ENGLISH

# RS Pro Conductive Polymer Potentiometer for Automotive Applications



## Description:

Series CP17/210 and LM Series automotive conductive polymer potentiometer.

## Features:

- Designed for automotive and similar demanding applications
- High performance, cost effective potentiometers, with long endurance life
- Protected against engine compartment environment
- Flying leads and connectors to customer's specification
- Lever drive configured to customer's requirements

RS Stock No: 317-780



## Specifications:

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Standard Resistance Range: 500 ohms to 10K

Tolerance: +/-20%, (+/-10% available)

Independent Linearity: +/-2%, may be improved by automatic law trimming

Temperature Characteristic: 0 to 200 ppm/°C max

Output Smoothness: 0.5% (CP17210) 1.0% (LM10)

Operating Temperature: -40°C to + 130°C

Isolation Voltage: 500V ac r.m.s.

Insulation Resistance: >10M ohms at 500V

Hysteresis: <0.3%

## LM10

Effective travel: 10mm +/-0.5mm

Mechanical travel: 12.5mm max.

Operational force: 200-750g All Potentiometers are fitted with a return spring

Mechanical endurance life: 3,000,000 cycles.

Note: Tolerance on linearity is related to track length, for further data see the application note below.

Application notes: Potentiometers having conductive polymer tracks are tested as potential dividers with a wiper load resistance of a minimum of 100 times the track resistance. This load resistance is calculated for a 350 degree track.

Potentiometers with reduced track length should ideally be matched with the appropriate higher wiper load.

350 degrees: 100 times

180 degrees: 200 times

90 degrees: 400 times

If the component is used as a variable resistor certain performance parameters may well differ from those quoted herein.

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