

## Product Overview

### CAT5119: Digital Potentiometer (POT), 32-Tap, with 2-Wire Interface

For complete documentation, see the data sheet.

CAT5119 linear-taper digital POT performs the same function as a mechanical potentiometer or a variable resistor. This device consists of a fixed resistor and a wiper contact with 32-tap points that are digitally controlled through a 2-wire up/down serial interface. The CAT5119 is configured as a variable resistor. Three resistance values are available: 10 k $\Omega$ , 50 k $\Omega$ , and 100 k $\Omega$ .

### Features

- 0.3  $\mu$ A Ultra-low standby current
- Single-supply operation: 2.7 V to 5.5 V
- Glitchless switching between resistor taps
- Power-on reset to midscale
- 2-Wire up/down serial interface
- Resistance values: 10 k $\Omega$ , 50 k $\Omega$  and 100 k $\Omega$

### Applications

- LCD screen adjustment
- Volume control
- Mechanical potentiometer replacement
- Gain adjustment
- Line impedance matching

### End Products

- Industrial Equipment

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	# of Pots	# of Taps	Type	Control Interface	Resistance Typ (k $\Omega$ )	V <sub>H</sub> Max (V)	Wiper Position Memory	V <sub>DD</sub> Max (V)	Package Type
CAT5119SDI-00GT3	1.0666	Pb-free Halide free non AEC-Q and PPAP	Active	1	32	Rheostat	Up/Down	100	VCC	No	5.5	SC-88-6 / SC-70-6 / SOT-363-6
CAT5119SDI-10GT3	1.0666	Pb-free Halide free non AEC-Q and PPAP	Active	1	32	Rheostat	Up/Down	10	VCC	No	5.5	SC-88-6 / SC-70-6 / SOT-363-6
CAT5119SDI-50GT3	1.0666	Pb-free Halide free non AEC-Q and PPAP	Active	1	32	Rheostat	Up/Down	50	VCC	No	5.5	SC-88-6 / SC-70-6 / SOT-363-6
CAT5119TBI-00GT3	1.106	Pb-free Halide free non AEC-Q and PPAP	Active	1	32	Rheostat	Up/Down	100	VCC	No	5.5	SOT-23-6
CAT5119TBI-10GT3	1.0533	Pb-free Halide free non AEC-Q and PPAP	Active	1	32	Rheostat	Up/Down	10	VCC	No	5.5	SOT-23-6
CAT5119TBI-50GT3	1.106	Pb-free Halide free non AEC-Q and PPAP	Active	1	32	Rheostat	Up/Down	50	VCC	No	5.5	SOT-23-6

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