

251B12T104A2NB Datasheet



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DiGi Electronics Part Number	251B12T104A2NB-DG
Manufacturer	CTS Electrocomponents
Manufacturer Product Number	251B12T104A2NB
Description	POT 100K OHM 0.01W CARBON LINEAR
Detailed Description	100k Ohm 1 Gang Linear Through Hole Potentiometer None 1.0 Kierros Carbon 0.01W PC Pins

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Purchase and inquiry

Manufacturer Product Number:

251B12T104A2NB

Series:

251

Resistance (Ohms):

100k

Power (Watts):

0.01W

Number of Turns:

1

Taper:

Linear

Adjustment Type:

Side Adjustment

Rotation:

-

Termination Style:

PC Pins

Actuator Length:

0.472" (12.00mm)

Bushing Thread:

-

Size - Body:

Rectangular - 0.437" x 0.394" Face (11.10mm x 10.00mm)

Manufacturer:

CTS Electrocomponents

Product Status:

Active

Tolerance:

±10%

Built in Switch:

None

Features:

Long Life

Number of Gangs:

1

Temperature Coefficient:

-

Resistive Material:

Carbon

Actuator Type:

Flatted

Actuator Diameter:

0.156" (3.96mm)

Mounting Type:

Through Hole

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8533.40.8070

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

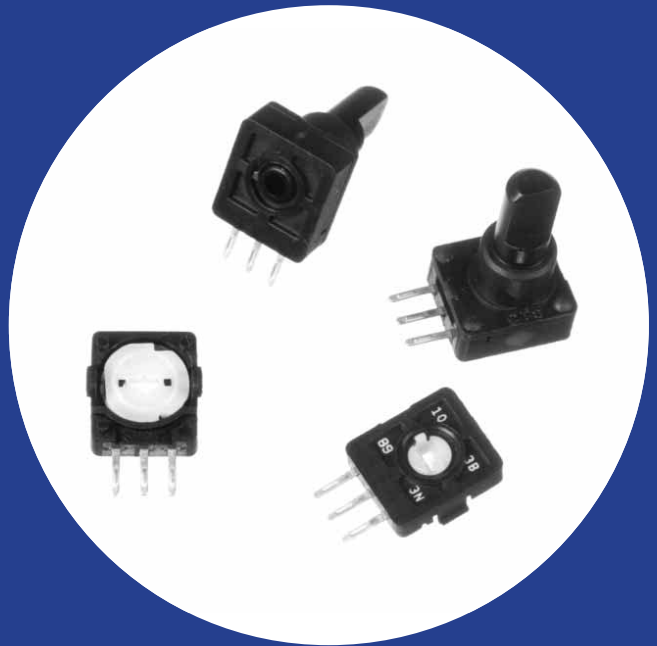


Series 251 Technical Data

Long life, 9mm diameter, composition element, variable resistor

Features

- 1 million cycle life
- Miniature 9 mm size
- Multiple rotation angles available
- Low rotational torque
- Sturdy insert molded PC terminals
- Bushing mount or shaftless available
- Tap available



Electrical and Mechanical Specifications

Resistance Range

10 K ohms through 200 K ohms

Resistance Tolerance

Standard: $\pm 20\%$

Special: $\pm 10\%$ and $\pm 30\%$ available

Resistance Taper

Linear $\pm 5\%$

Insulation Resistance

100 megohms minimum @ 250 VDC

Operating Temperature

-10°C to $+70^{\circ}\text{C}$

Rotational Torque

3 to 10 gf-cm

Rotational Life

1,000,000 cycles

Power Rating

0.01 watt at 50°C derated to no load at 85°C

Maximum Operating Voltage

Maximum 50 VAC or 5 VDC

Angle of Rotation

Total Rotation - With Shaft: 180°

No Shaft: 360°

Effective Rotation: 38° , 40° , 50° , 60° , 70° , 85° , 90° or 110° available
(Typical joystick control use.)

Materials

Housing: UL 94V-2

Shaft / Bushing: UL 94V-2

Base UL flame class 94HB

Shaft Information

Flatted, molded shaft

Diameter: 3.96 mm or 5.0 mm,
depending on shaft trim

Mounting Information

Bushing mount (unthreaded)

Diameter: 7.00 mm

Length: 5.00 mm

Tap Available

4° angle at 50% rotation optional

Other taps available - consult CTS

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