



Electrotechnical components

Potentiometers



Potentiometers

Series PNZ10Z / PNZ11Z and PNZ10Z-SMD CARBON RESISTIVE LAYER closed version – 10mm

ELECTRICAL DATA

Rated dissipation at Tamb = 40°C:	0,15W lin / 0,1W log
Nominal resistance value:	50Ω to 10MΩ lin / 1KΩ to 2MΩ log / *
Resistance tolerance:	± 20% for values R 100Ω to 1MΩ / * ± 30% for values R≥ 1MΩ to 10MΩ / *
Resistance law:	lin, log+, log-, / *
Maximum operating voltage:	200VDC lin / 150VDC log
Temperature coefficient:	< 100 KΩ: ±500ppm/°K, > 100 KΩ : ±1000ppm/°K
Climatic stability:	IEC 393-1 category 25/70/21
Operating temperature:	-25°C to +70°C
Electric angle of rotation:	240° ±15° / *

MECHANICAL DATA

Mechanical angle of rotation:	295° ±5°
Operating torque:	4 to 20 mNm
End stop torque:	≥ 50 mNm
Weight	~ 0,72 g
Rotational life:	200 cycles (long life 10.000 cycles)*

* Special characteristics and specifications on customer demand are available



Series PNZ14D / PNZ15E and PNZ14D-SMD CARBON RESISTIVE LAYER closed version – 15mm

ELECTRICAL DATA

Rated dissipation at Tamb = 40°C:	0,25W lin / 0,12W log
Nominal resistance value:	100Ω to 5MΩ lin / 2,2KΩ to 2,5MΩ log / *
Resistance tolerance:	± 20% for values R 100Ω to 1MΩ / * ± 30% for values R≥ 1MΩ to 10MΩ / *
Resistance law:	lin, log+, log-, / *
Maximum operating voltage:	300VDC lin / 200VDC log
Temperature coefficient:	< 100 KΩ: ±500ppm/°K, > 100 KΩ : ±1000ppm/°K
Climatic stability:	IEC 393-1 category 25/70/21
Operating temperature:	-25°C to +70°C
Electric angle of rotation:	240° ±20° / *

MECHANICAL DATA

Mechanical angle of rotation:	265° ±5° (optional: 280° ±5°, 360°)*
Operating torque:	4 to 25 mNm
End stop torque:	≥ 100 mNm
Weight	~ 1,3 g
Rotational life:	10.000 cycles (long life 40.000 cycles)*

* Special characteristics and specifications on customer demand are available



Series PN18 / PN19 CARBON RESISTIVE LAYER closed version – 15mm

ELECTRICAL DATA

Rated dissipation at Tamb = 40°C:	0,25W lin / 0,12W log
Nominal resistance value:	100Ω to 5MΩ lin / 2,2KΩ to 2,5MΩ log / *
Resistance tolerance:	± 20% for values R 100Ω to 1MΩ / * ± 30% for values R≥ 1MΩ to 10MΩ / *
Resistance law:	lin, log+, log-, / *
Maximum operating voltage:	300VDC lin / 200VDC log
Temperature coefficient:	< 100 KΩ: ±500ppm/°K, > 100 KΩ : ±1000ppm/°K
Climatic stability:	IEC 393-1 category 25/70/21
Operating temperature:	-25°C to +70°C
Electric angle of rotation:	240° ±20° / *

MECHANICAL DATA

Mechanical angle of rotation:	280° ±5°
Operating torque:	4 to 25 mNm
End stop torque:	≥ 100 mNm
Weight	~ 1,5 g
Rotational life:	200 cycles (long life 10.000 cycles)*

* Special characteristics and specifications on customer demand are available



Potentiometers

Series PN8B / PN9B CARBON RESISTIVE LAYER open version – 8mm

ELECTRICAL DATA

Rated dissipation at Tamb = 40°C:	0,07W lin
Nominal resistance value:	100Ω to 5MΩ lin / *
Resistance tolerance:	± 20% for values R 100Ω to 1MΩ / * ± 30% for values R ≥ 1MΩ to 5MΩ / *
Resistance law:	Lin / *
Maximum operating voltage:	150VDC
Temperature coefficient:	< 100 KΩ: ±500ppm/°K, > 100 KΩ : ±1000ppm/°K
Climatic stability:	IEC 393-1 category 25/70/21
Operating temperature:	-25°C to +70°C
Electric angle of rotation:	215° ±20° / *

MECHANICAL DATA

Mechanical angle of rotation:	240° ±5°
Operating torque:	4 to 20 mNm
End stop torque:	≥ 50 mNm
Weight	~ 0,28 g
Rotational life:	200 cycles

* Special characteristics and specifications on customer demand are available



Series P11M (modular) CARBON RESISTIVE LAYER closed version – 16mm

ELECTRICAL DATA

Rated dissipation at Tamb = 40°C:	0,25W lin / 0,12W log
Nominal resistance value:	100Ω to 10MΩ lin / 1KΩ to 2MΩ log / *
Resistance tolerance:	± 20% for values R 100Ω to 1MΩ / * ± 30% for values R ≥ 1MΩ to 5MΩ / *
Resistance law:	lin, log+, log-, / *
Maximum operating voltage:	500VDC lin / 250VDC log
Temperature coefficient:	< 100 KΩ: ±500ppm/°K, > 100 KΩ : ±1000ppm/°K
Climatic stability:	IEC 393-1 category 25/70/21
Operating temperature:	-25°C to +70°C
Electric angle of rotation:	260° ±20°

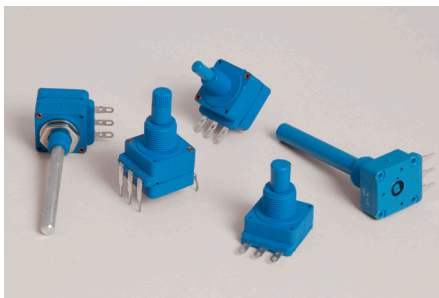
MECHANICAL DATA

Mechanical angle of rotation:	300° ±5°
Operating torque:	5 to 25 mNm
End stop torque:	> 400 mNm
Lock nut torque	max 800 mNm
Weight:	2.5g / 5g with switch
Rotational life:	25.000 cycles / with switch 10.000 switch cycles

SWITCH DATA

Type:	Single pole rotary switch
Switch rating:	1A / 250VDC
Angle of switch ON (Mechanical angle)	35° ±5° (300° ±5°)

* Special characteristics and specifications on customer demand are available



Potentiometers

Seris PC4 / PC5 CERMET RESISTIVE LAYER closed version – 13mm

ELECTRICAL DATA

Rated dissipation at Tamb = 70°C:	1W lin / 0,5W log
Nominal resistance value:	50Ω to 4,7MΩ / *
Resistance tolerance:	± 20% for values R 50Ω to 1MΩ / * ± 30% for values R ≥ 1MΩ to 4,7MΩ / *
Maximum operating voltage:	lin, log+, log-, / *
Temperature coefficient:	300VDC lin / 250VDC log
Class of application DIN 40 040:	±250ppm/°K
Operating temperature:	Class FKD
Electric angle of rotation:	-55°C to +125°C
Electric angle of rotation:	240° ±10°

MECHANICAL DATA

Mechanical angle of rotation:	285° -5°
Operating torque:	5 to 35 mNm
End stop torque:	> 400 mNm
Lock nut torque:	max 450 mNm
Weight (spindle length Lk=45):	~ 3,7 g
Rotational life:	25.000 cycles
Ingress protection rating:	IP67

* Special characteristics and specifications on customer demand are available



PC6 / PC7 CERMET RESISTIVE LAYER closed version – 18mm

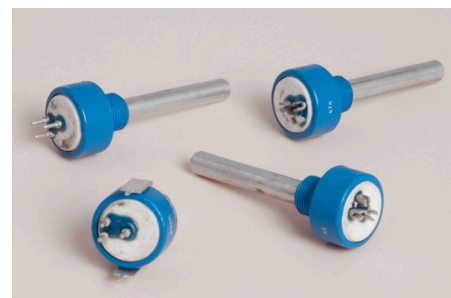
ELECTRICAL DATA

Rated dissipation at Tamb = 70°C:	2W lin / 1W log
Nominal resistance value:	50Ω to 4,7MΩ / *
Resistance tolerance:	± 20% for values R 50Ω to 1MΩ / * ± 30% for values R ≥ 1MΩ to 4,7MΩ / *
Maximum operating voltage:	lin, log+, log-, / *
Temperature coefficient:	300VDC lin / 250VDC log
Class of application DIN 40 040:	±250ppm/°K
Operating temperature:	Class FKD
Electric angle of rotation:	-55°C to +125°C
Electric angle of rotation:	245° ±10°

MECHANICAL DATA

Mechanical angle of rotation:	270° ±5°
Operating torque:	5 to 35 mNm
End stop torque:	> 400 mNm
Lock nut torque:	max 450 mNm
Weight (spindle length Lk=42):	~ 8,2 g
Rotational life:	25.000 cycles
Ingress protection rating:	IP67

* Special characteristics and specifications on customer demand are available



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