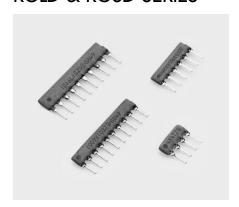
THERMISTORS/RESISTORS RESISTOR NETWORKS RGLD & RGSD SERIES





Murata's thick film resistor networks are designed to meet a variety of application requirements in a compact, highly reliable package. Considerable production economies are also realized during board assembly since only one component, consisting of many resistors, has to be inserted in the PC board. Moreover, it is possible to assemble resistor networks consecutively with .10 inch pitch mounting holes. Our RGLD Series is also compatible with all standard DIP package heights with a maximum seated height of just 5.0mm.

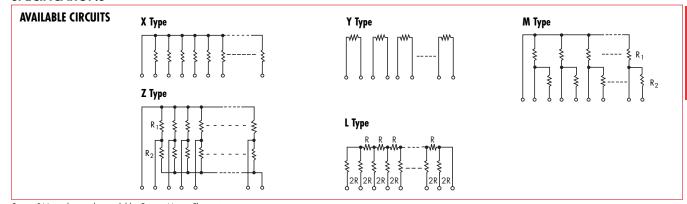
Quality is monitored and controlled in accordance with TQC (Total Quality Concepts) inspection. The AQL is .25% for value and tolerance at 25°C and visual marking (major) attributes. Dimension is .65% AQL and general workmanship is 2.5% AQL.

Murata welcomes the opportunity to aid in the design of resistor network modules to meet specific requirements within the overall capabilities described in this catalog.

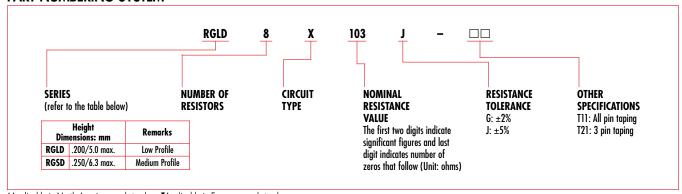
DIMENSIONS: mm

2.5 max.	Circuit Torri	T	Number of Pins (Number of Resistors)	Power Ratings Each Resistor (W)	Max. Operating Voltage (V)	Dimensions	
	Circuit	Circuit Type				L	Н
L max. H max. P × (number of Pins - 1) \pm 0.3 P = 2.54 \pm 0.2	Common Circuit	χ	4(3) ~ 13(12)	1/8		10.1 ~ 33.0	
	Isolated Circuit	Υ	6(3), 8(4), 10(5), 12(6), 14(7)			15.5 ~ 35.5	
	Even Pin Voltage Divider	М	7(6), 9(8), 11(10), 13(12)		17.6 ~ 33.0	5.0	
	Dual Terminator Circuit	Z	6(8), 7(10), 8(12), 9(14), 10(16)				
	Ladder Circuit	L	6(8), 7(10), 8(12), 9(14), 10(16) 11(18)	1/32		15.1 ~ 27.8	6.3

SPECIFICATIONS



Custom R-Networks are also available. Contact Murata Electronics.



Applicable in North American market only. ▼Applicable in European market only.

For more detailed information regarding this product line in North America, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172.

For more detailed information regarding this product line in Europe, see Catalog No. N16E-6.

THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS POZ3 SERIES





FEATURES

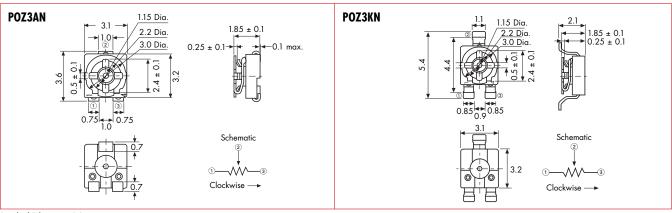
- Single-turn carbon; square; 3.1 mm package
- Excellent solderability characteristics are achieved via special plating techniques on each termination.
- Specially designed substrate prevents wicking of flux onto the top of the part
- Enlarged bottom termination enhances soldering strength while reducing the necessary land area required promoting high-density PCB mounting

■ Funnel shaped, adjustment slot allows for in-process automatic adjustment

APPLICATIONS

- Cordless telephones
- CD-players
- CD-ROMs
- Car stereos
- TFT-LCD TV sets
- Headphone stereos
- Radar detectors

DIMENSIONS: mm

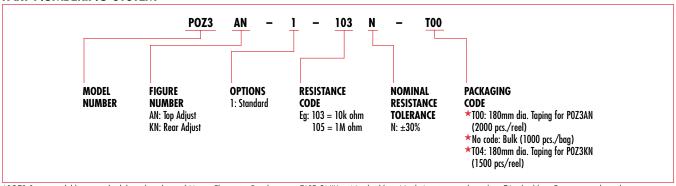


Standard Tolerance: ±0.3

SPECIFICATIONS

ltem	POZ3AN	POZ3KN	
Standard Resistance Range	$200\Omega\sim 2M\Omega$ (1, 2, 3, 5 step)		
Resistance Tolerance	±30%		
Taper	B (Linear)		
Power Rating	1/10W (50°C)		
Maximum Working Voltage	50VDC		
Operating Temperature Range	−25°C ~ +85°C		
Rotational Torque	2.0 ~ 19.6mNm (20 ~ 200gf • cm)		
Effective Rotational Angle	230° ± 10°		

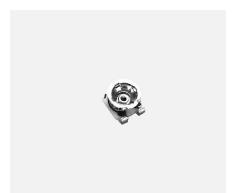
PART NUMBERING SYSTEM



*POZ3 Series available as standard through authorized Murata Electronics Distribution on TAPE ONLY.
Applicable in North American market only.
For more detailed information regarding this product line in North America, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172.
For more detailed information regarding this product line in Europe, see Catalog No. R50E-7.

THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS RVG3 SERIES



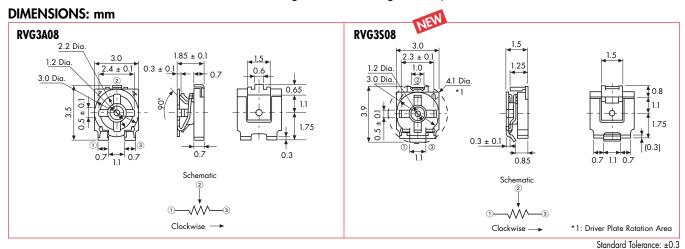


FEATURES

- Single-turn cermet; square; 3.0mm package
- Funnel shaped slot allows for in-process automatic adjustment providing superior adjustability, (RVG3A08 Series).
- Miniature package allows high density PCB mounting
- Plated termination achieves a high resistance to solder leaching.
- Recommended for both reflow and flow soldering method. (Need cleaning for flow soldering method.)

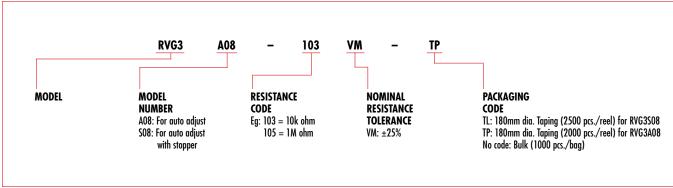
APPLICATIONS

- Camcorders
- Video disk players
- TFT-LCD TV sets
- Headphone stereos
- Cordless telephones
- Micro-motors
- Optical cameras
- Car stereos



SPECIFICATIONS

ltem	
Standard Resistance Range	100Ω ~ 2MΩ (1, 2, 3, 5 step)
Resistance Tolerance	±25%
Taper	B (Linear)
Power Rating	1/10W (70°C)
Maximum Working Voltage	50VDC
Operating Temperature Range	−55°C ~ +125°C
Rotational Torque	2.0 ~ 24.5mNm (20 ~ 250gf • cm)
Effective Rotational Angle	270° ± 10°



Applicable in North American market only. ▼Applicable in European market only.

For more detailed information regarding this product line in North America, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172.

For more detailed information regarding this product line in Europe, see Catalog No. R50E-7.

THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS RVG4M SERIES





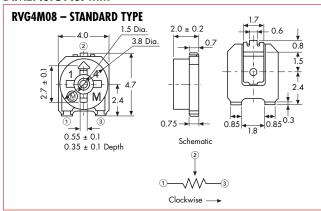
FEATURES

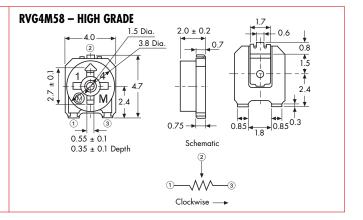
- Single-turn cermet; square; 4.0mm package
- Available for flow and reflow soldering method while maintaining unique sealed construction
- Simple 3 part construction achieves high reliability
- Available for cleaning after soldering
- Plated termination achieves a high resistance to solder leaching.
- High grade version is available (RVG4M58)

APPLICATIONS

- FDDs
- HDDs
- Measuring equipment
- Encoders
- Professional use cameras

DIMENSIONS: mm



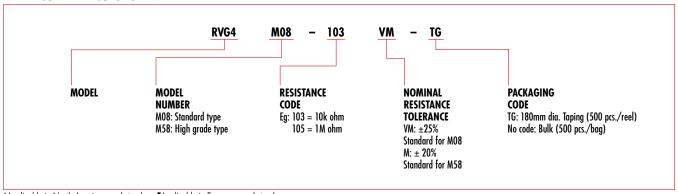


Standard Tolerance: ±0.3

SPECIFICATIONS

Item	RVG4M08	RVG4M58
Standard Resistance Range	$200\Omega\sim2M\Omega$ (1, 2, 3, 5 step)	$100\Omega\sim 2M\Omega~(1,2,3,5~step)$
Resistance Tolerance	±25%	±20%
Taper	B (Linear)	B (Linear)
Power Rating	1/10W (70°C)	1/4W (70°C)
Maximum Working Voltage	50VDC	200VDC
Operating Temperature Range	−55°C ~ +125°C	–55°C ∼ +125°C
Rotational Torque	2.0 ~ 24.5mNm (20 ~ 250gf • cm)	1.0 ~ 14.7mNm (10 ~ 150gf ● cm)
Effective Rotational Angle	240° ± 10°	240° ± 10°
Marking Color on Driver Plate	Black	Purple

PART NUMBERING SYSTEM



Applicable in North American market only. ▼Applicable in European market only.

For more detailed information regarding this product line in North America, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172.

For more detailed information regarding this product line in Europe, see Catalog No. R50E-7.

THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS-MULTI-TURN CERMET CHIP **POG5 SERIES**





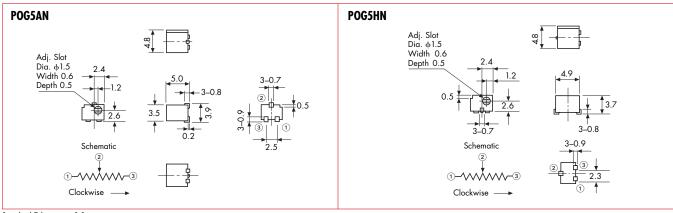
FEATURES

- 11-turn cermet; square; 5.0mm package
- High resolution design enables precise adjustment
- Miniature size offer high density PCB mounting
- Compatible with VPS reflow soldering method
- Compatible with ultrasonic cleaning
- Clutch mechanism prevents excessive wiper rotation

APPLICATIONS

- Measuring instruments
- Sensors
- CPUs
- Industrial machines

DIMENSIONS: mm

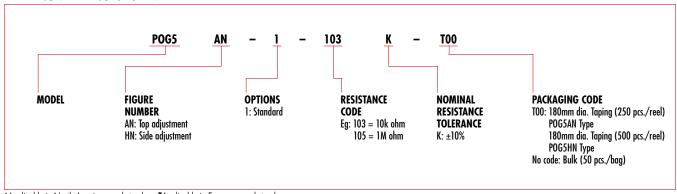


Standard Tolerance: ±0.3

SPECIFICATIONS

JE LCII ICATIONS	
Item	
Standard Resistance Range	$10\Omega\sim 2M\Omega$ (1, 2, 5 step)
Nominal Resistance Tolerance	±10%
Power Rating	70°C – 0.25W 125°C – 0W
Maximum Working Voltage	300V
Maximum Wiper Current	100mA max.
Operating Temperature Range	−55°C ~ +125°C
Effective Electrical Number of Turn	11 ± 2 turns
Residual Resistance	1% or 2Ω max., whichever is greater
Contact Resistance Variation	3% or 3Ω max., whichever is greater
Dielectric Strength	600VAC
Insulation Resistance	100MΩ min. (500VDC)
Torque	17.6mNm (180gf • cm) max.

PART NUMBERING SYSTEM



▲Applicable in North American market only. ▼Applicable in European market only. For more detailed information regarding this product line in North America, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172. For more detailed information regarding this product line in Europe, see Catalog No. R50E-7.

THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS-SINGLE-TURN CERMET LEADED POT3321 SERIES





FEATURES

- Single-turn cermet; round; 6.6mm package
- 6 standard terminal styles
- Compatible with ultrasonic cleaning
- Flammability: UV94V-0

APPLICATIONS

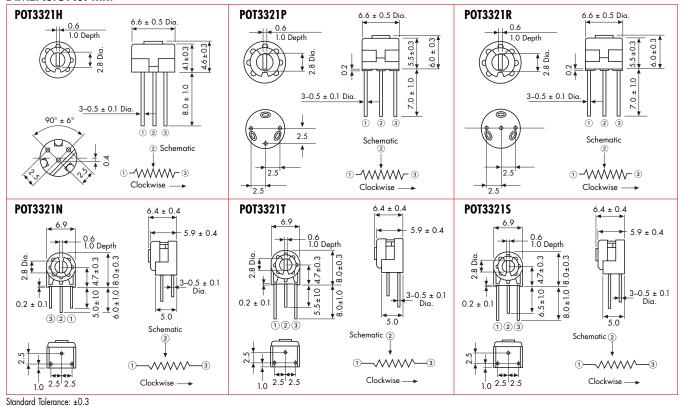
- TVs
- HDTVs
- Professional cameras
- Facsimile machines

Printers

CPUs

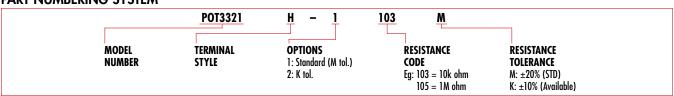
Switching power supplies

DIMENSIONS: mm



SPECIFICATIONS

JE ECII ICAIIOINJ			
ltem		ltem	
Standard Resistance Range	$10\Omega\sim 5M\Omega$ (1, 2, 5 step)	Residual Resistance	2Ω max.
Nominal Resistance Tolerance	±20% (±10% available)	Contact Resistance Variation	3% or 3 Ω max., whichever is greater
Power Rating	70°C — 0.5W, 125°C — 0W	Dielectric Strength	600VAC
Maximum Working Voltage	300V	Insulation Resistance	1000M Ω min. (500VDC)
Maximum Wiper Current	100mA max.	Torque	19.6mNm (200gf • cm) max.
Operating Temperature Range	−55°C ~ +125°C	Stop Strength	49mNm (500gf • cm) min.
Effective Rotational Angle	230 ± 5°		



[▼]Applicable in European market only. ▲Applicable in North American market only.

For more detailed information regarding this product line in North America, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172. For more detailed information regarding this product line in Europe, see Catalog No. R50E-7.

THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS—SINGLE-TURN CERMET LEADED POT3104 SERIES



CPUs

■ Switching power supplies



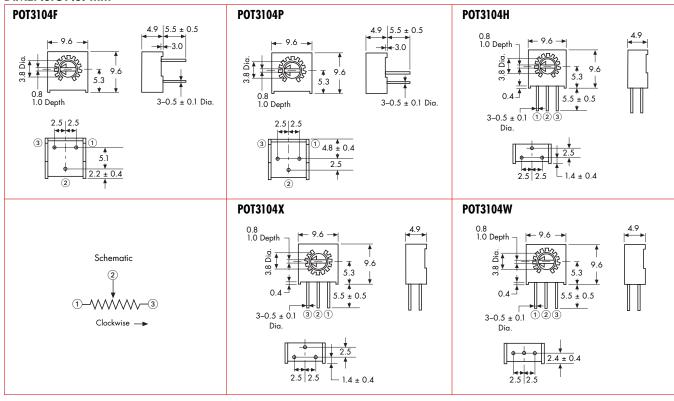
FEATURES

- Single-turn cermet; square; 9.6mm package
- Compatible with ultrasonic cleaning
- Flammability: UL94V-0

APPLICATIONS

- TVs
- HDTVs
- Professional cameras
- Facsimile machines
- Printers

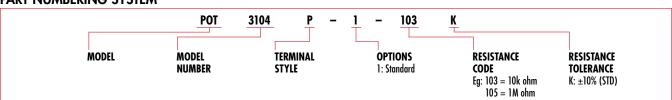
DIMENSIONS: mm



SPECIFICATIONS

Item		ltem	
Standard Resistance Range	$10\Omega\sim 2M\Omega$ (1, 2, 5 step)	Residual Resistance	2Ω max.
Nominal Resistance Tolerance	±10%	Contact Resistance Variation	1% or 1Ω max., whichever is greater
Power Rating	70°C — 0.5W, 125°C — 0W	Dielectric Strength	900VAC
Maximum Working Voltage	300V	Insulation Resistance	100M Ω min. (500VDC)
Maximum Wiper Current	100mA max.	Torque	35.3mNm (360gf • cm) max.
Operating Temperature Range	−55°C ~ 125°C	Stop Strength	68.6mNm (700gf • cm) min.
Effective Rotational Angle	280° ± 15°		

PART NUMBERING SYSTEM



All products on this page are available as standard through authorized Murata Electronics distributors. Applicable in North American market only. Applicable in European reformore detailed information regarding this product line in North America, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172. For more detailed information regarding this product line in Europe, see Catalog No. R50E-7. ▼Applicable in European market only.

THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS-MULTI-TURN CERMET LEADED POT1102 SERIES



CPUs PPCs

Printers



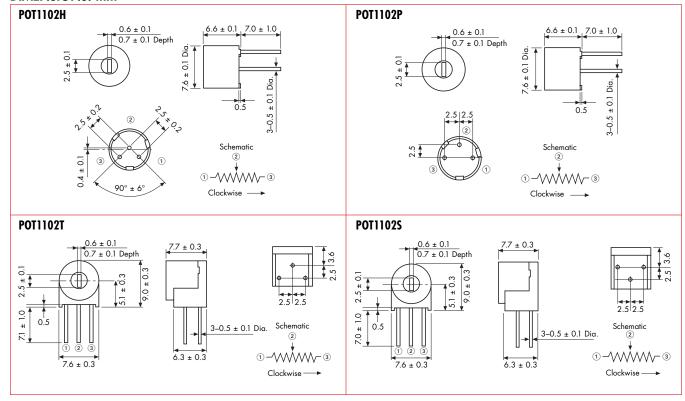
FEATURES

- 4-turn cermet; round; 7.6mm package
- Unique planetary drive enables precise wiper setting
- Clutch mechanism prevents excessive wiper rotation
- Compatible with ultrasonic cleaning

APPLICATIONS

- Measuring instruments
- Facsimile machines

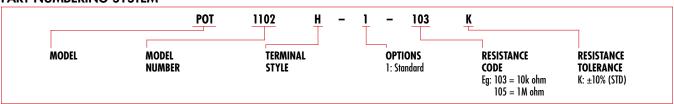
DIMENSIONS: mm



SPECIFICATIONS

or Echile Andria			
Item		ltem	
Standard Resistance Range	$10\Omega\sim 2M\Omega$ (1, 2, 5 step)	Effective Number of Turns	4 ± 0.5 turns
Nominal Resistance Tolerance	±10%	Residual Resistance	2Ω max.
Power Rating	70°C — 0.5W, 125°C — 0W	Contact Resistance Variation	3% or 3Ω max., whichever is greater
Maximum Working Voltage	300V	Dielectric Strength	600VAC
Maximum Wiper Current	100mA max.	Insulation Resistance	1000MΩ min. (500VDC)
Operating Temperature Range	−55°C ~ +125°C	Torque	14.7mNm (150gh • cm) max.

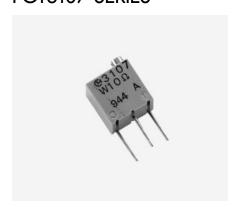
PART NUMBERING SYSTEM



All products on this page are available as standard through authorized Murata Electronics distributors. Applicable in North American market only. ▼Applicable in European market only. For more detailed information regarding this product line in North America, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172. For more detailed information regarding this product line in Europe, see Catalog No. R50E-7.

THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS-MULTI-TURN CERMET LEADED POT3107 SERIES





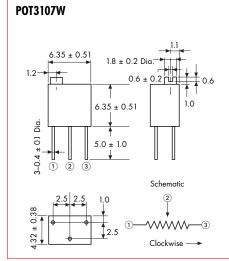
FEATURES

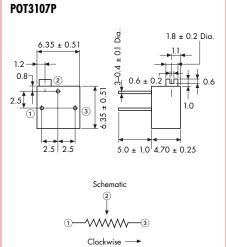
- 12-turn cermet; square; 6.35mm package
- Compatible with ultrasonic cleaning
- Clutch mechanism prevents excessive wiper rotation

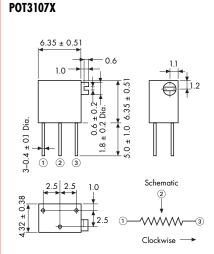
APPLICATIONS

- Measuring instruments
- Facsimile machines
- CPUs
- PPCs
- Printers
- Sensors

DIMENSIONS: mm



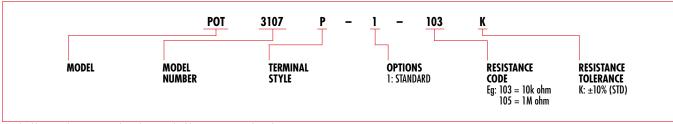




Standard Tolerance: ±0.3

SPECIFICATIONS

İtem	
Standard Resistance Range	$10\Omega\sim 1 M\Omega$ (1, 2, 5 step)
Nominal Resistance Tolerance	±10%
Power Rating	85°C – 0.25W, 125°C – 0W
Maximum Working Voltage	200V
Maximum Wiper Current	100mA max.
Operating Temperature Range	–55°C ~ +125°C
Effective Number of Turns	12 ± 2 turns
Residual Resistance	2Ω max.
Contact Resistance Variation	3% or 3 Ω max., whichever is greater
Dielectric Strength	600VAC
Insulation Resistance	100M Ω min. (500VDC)
Torque	21.2mNm (216gf • cm) max.



[▲]Applicable in North American market only. ▼Applicable in European market only. For more detailed information regarding this product line in North America, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172. For more detailed information regarding this product line in Europe, see Catalog No. R50E-7.

THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS-MULTI-TURN CERMET LEADED POT2103 SERIES





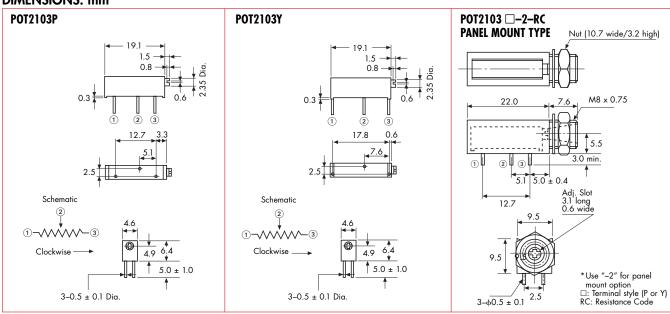
FEATURES

- 15-turn cermet; rectangle; 19.1mm package
- Recommended for applications requiring side adjustment
- Compatible with ultrasonic cleaning
- Clutch mechanism prevents excessive wiper rotation

APPLICATIONS

- Measuring instruments
- Facsimile machines
- CPUs PPCs
- Printers
- Sensors

DIMENSIONS: mm

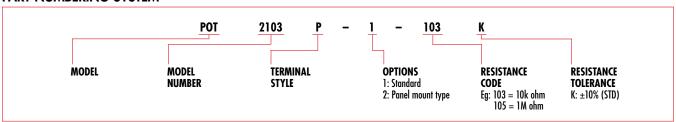


Standard Tolerance: ±0.3

SPECIFICATIONS

51 = 511 1 52 11 1 5 11 1 5	
Item	
Standard Resistance Range	$10\Omega\sim2\mathrm{M}\Omega$ (1, 2, 5 step)
Nominal Resistance Tolerance	±10%
Power Rating	70°C — 0.75W, 125°C — 0W
Maximum Working Voltage	300V
Maximum Wiper Current	100mA max.
Operating Temperature Range	−55°C ~ 125°C
Effective Number of Turns	15 ± 3 turns
Residual Resistance	2Ω max.
Contact Resistance Variation	3% or 3 Ω max., whichever is greater
Dielectric Strength	1000VAC
Insulation Resistance	1000M Ω min. (500VDC)
Torque	14.7mNm (150gf • cm) max.

PART NUMBERING SYSTEM



All products on this page are available as standard through authorized Murata Electronics distributors. Applicable in North American market only. ▼Applicable in European market only. For more detailed information regarding this product line in North America, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172. For more detailed information regarding this product line in Europe, see Catalog No. R50E-7.

THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS-MULTI-TURN CERMET LEADED POT2102 SERIES





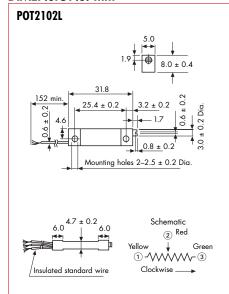
FEATURES

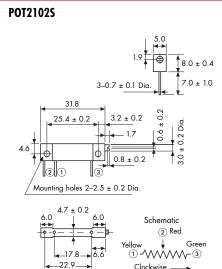
- 22-turn cermet; rectangle; 31.8mm package
- Recommended for applications requiring side adjustment
- High power rating: 1W at 70°C
- Compatible with ultrasonic cleaning
- Clutch mechanism prevents excessive wiper rotation

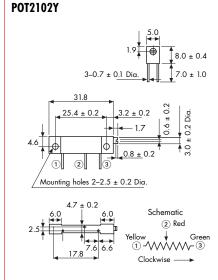
APPLICATIONS

- Measuring instruments
- Facsimile machines
- **CPUs**
- PPCs
- Printers
- Sensors

DIMENSIONS: mm

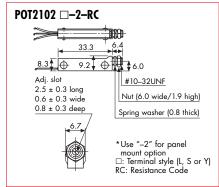






Standard Tolerance: ±0.3

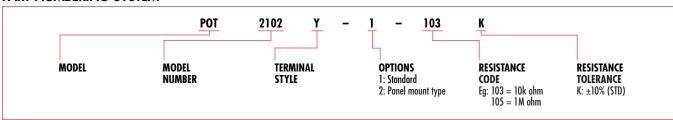
PANEL MOUNT TYPE



Standard Tolerance: ±0.4

SPECIFICATIONS

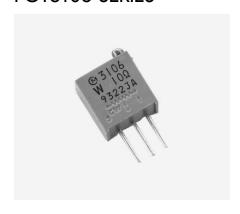
ltem			
Standard Resistance Range	$10\Omega\sim 2M\Omega$ (1, 2, 5 step)		
Nominal Resistance Tolerance	±10%		
Power Rating	70°C — 1W, 150°C — 0W		
Maximum Working Voltage	300V		
Maximum Wiper Current	100mA max.		
Operating Temperature Range	−55°C ~ +150°C		
Effective Number of Turns	22 ± 5 turns		
Residual Resistance	2Ω max.		
Contact Resistance Variation	3% or 3 Ω max., whichever is greater		
Dielectric Strength	1000VAC		
Insulation Resistance	1000M Ω min. (500VDC)		
Torque	19.6mNm (200gf • cm) max.		



[▼]Applicable in European market only. ▲Applicable in North American market only. For more detailed information regarding this product line in North America, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172. For more detailed information regarding this product line in Europe, see Catalog No. R50E-7.

THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS-MULTI-TURN CERMET LEADED POT3106 SERIES





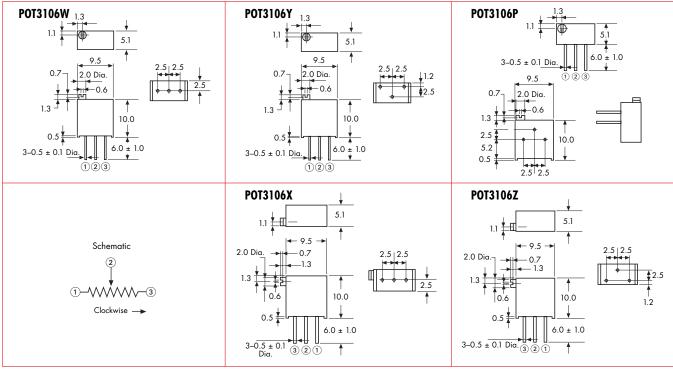
FEATURES

- 25-turn cermet; square; 9.5mm package
- 5 terminal styles, top and side adjustment
- Compatible with ultrasonic cleaning
- Clutch mechanism prevents excessive wiper rotation

APPLICATIONS

- Measuring instruments
- Facsimile machines
- CPUs PPCs
- Printers
- Sensors

DIMENSIONS: mm

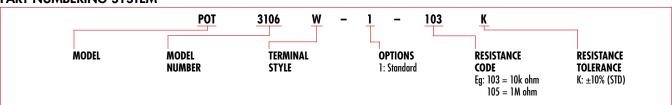


Standard Tolerance: ±0.3

SPECIFICATIONS

ltem		ltem	
Standard Resistance Range	$10\Omega\sim 2M\Omega$ (1, 2, 5 Step)	Effective Number of Turns	25 ± 5 turns
Nominal Resistance Tolerance	±10%	Residual Resistance	2Ω max.
Power Rating	70°C — 0.5W, 125°C — 0W	Contact Resistance Variation	3% or 3 Ω max., whichever is greater
Maximum Working Voltage	300V	Dielectric Strength	1000VAC
Maximum Wiper Current	100mA max.	Insulation Resistance	1000M Ω min. (500VDC)
Operating Temperature Range	−55°C ~ +125°C	Torque	14.7mNm (150gf • cm) max.

PART NUMBERING SYSTEM



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THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS—SINGLE-TURN CERMET POM6 SERIES



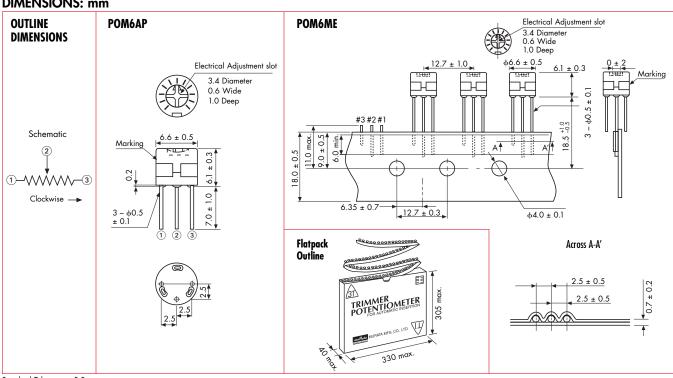
FEATURES

- Enlarged adjustment part (Roter) provides superior adjustability.
- 11-scales are easy to see adjustment
- Colored adjustment part (Roter) provides superior adjustability.
- Available for ultrasonic cleaning after soldering.
- FlammaĎility: UV94V-0
- Radial taping

APPLICATIONS

- DY, CRT display ■ Power supply
- Professional cameras
- CATV
- FAX Printers
- Sensors
- Industrial machines

DIMENSIONS: mm

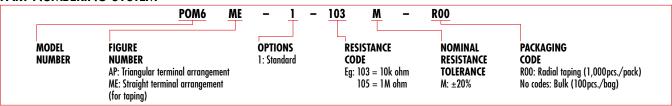


Standard Tolerance: ±0.3

SPECIFICATIONS

Item		ltem			
Standard Resistance Range	10Ω ~ 5M Ω (1, 2, 5 Step)	Residual Resistance	2Ω max.		
Nominal Resistance Tolerance	±20%	Contact Resistance Variation	3% or 3Ω max., whichever is greater		
Power Rating	70°C — 0.5W, 125°C — 0W	Dielectric Strength	600VAC		
Maximum Working Voltage	300V	Insulation Resistance	1000M Ω min. (500VDC)		
Maximum Wiper Current	100mA max.	Torque	1.96 to 19.6mNm (20 to 200gf • cm)		
Operating Temperature Range	−55°C ~ +125°C	Stop Strength	49mNm (500gf • cm) min.		
Effective Rotational Angle	230 ± 5°				

PART NUMBERING SYSTEM



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THERMISTORS/RESISTORS TRIMMER POTENTIOMETERS



RECOMMENDABLE ADJUSTMENT TOOLS

Model	Manufacturers	Model Number	MURATA Model Number	Blade		
For Manual Adjustment						
POZ3	VESSEL MFG.	No. 9000 + 1.7 X 30	KMPOT12V	⊕ cross		
	TORAY INDUSTRIES, INC.	SA-2225	KMPOT13T			
RVG3A08	VESSEL MFG.	No. 9000 + 1.7 X 30	KMPOT12V	⊕ cross		
	TORAY INDUSTRIES, INC.	SA-2225	KMPOT13T			
RVG3S08	TORAY INDUSTRIES, INC.	SA-2225	KMPOT13T			
RVG4M	VESSEL MFG.	No. 9000 – 2.6 X 30	KMPOT15V			
3321 POT	VESSEL MFG.	No. 9000 — 1.8 X 30	KMPOT14V			
	FUTABA TOOL MFG.	DA55	_			
	MURATA MFG.	PPTZ-0022	PPTZ-0022			
POG5	VESSEL MFG.	No. 9000 - 1.3 X 30	KMPOT16V	⊕ cross		
	FUTABA TOOL MFG.	DA54	_			
For Automatic A	djustment					
POZ3 RVG3A08 RVG3S08 POM6	TORAY INDUSTRIES, INC.	JB-2225	КМРОТЗІТ	⊝ minus		

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For more detailed information regarding this product line in Europe, see Catalog No. R50E-7.