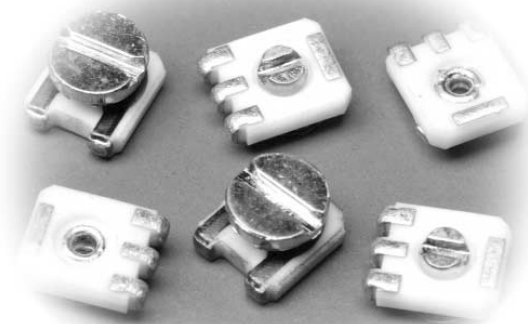
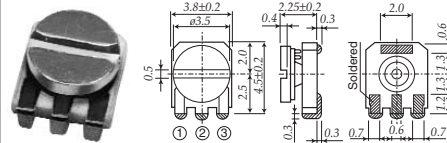
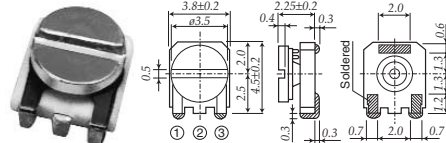
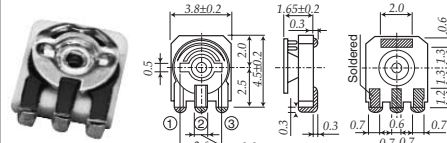
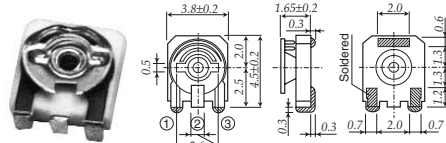
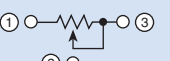
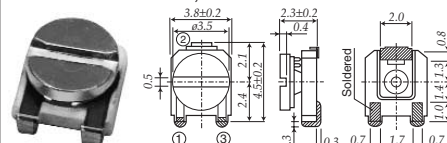
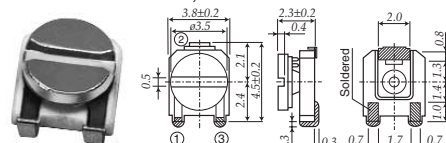
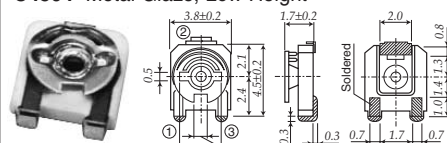
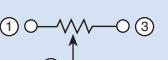
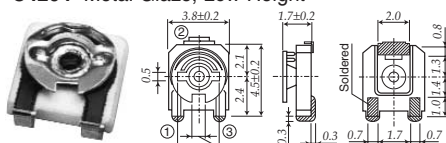
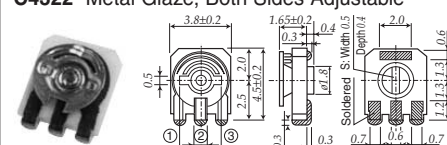
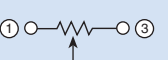
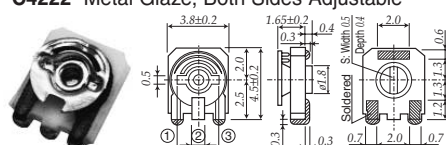
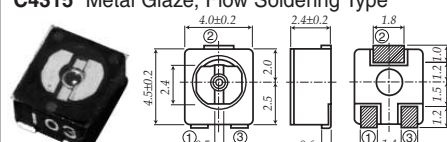
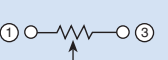
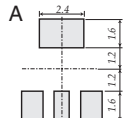
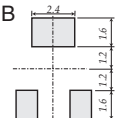




features

- Miniature size: 3.8mm x 4.6mm
- Eleven different types/configurations
- Two terminal type (current adjust) and three terminal type (voltage adjust) available

dimensions and construction

Voltage Adjust Type	Dimensions mm		Current Adjust Type	Dimensions mm	
C4312 Metal Glaze, Standard		Recommended Pad: A Equivalent Circuit  *A	C4212 Metal Glaze, Standard		Recommended Pad: B Equivalent Circuit  *A
C4302 Metal Glaze, Low Height		Recommended Pad: A Equivalent Circuit  *B	C4202 Metal Glaze, Low Height		Recommended Pad: B Equivalent Circuit  *B
C4314 Metal Glaze, Standard		Recommended Pad: B Equivalent Circuit  *A	C4214 Metal Glaze, Standard		Recommended Pad: B Equivalent Circuit  *A
C4304 Metal Glaze, Low Height		Recommended Pad: B Equivalent Circuit  *B	C4204 Metal Glaze, Low Height		Recommended Pad: B Equivalent Circuit  *B
C4322 Metal Glaze, Both Sides Adjustable		Recommended Pad: A Equivalent Circuit  *A	C4222 Metal Glaze, Both Sides Adjustable		Recommended Pad: B Equivalent Circuit  *C
C4315 Metal Glaze, Flow Soldering Type		Recommended Pad: C Equivalent Circuit  *A	Recommended Pad Dimensions mm A B C		

*Recommended dimensions of the point of the driver for adjustment. A: 2.3x0.4; B: 3.0x0.4; C: 2.3x0.4 Front, 1.8x0.4 Back

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

12/03/04

ordering information

New Part #	C	42	1	2	A	TE	102
	Product Code	Type	Style	Structure	Termination Material	Packaging	Nominal Resistance
		42: Current adjust type 43: Voltage adjust type	0: Thin 1: Standard 2: Reverse	2: Same side 4: Reverse side 5: Flow type	A: SnAg C: SnCu L: SnPb	TE: 7" embossed plastic (C4202 ~ C4314 - 750 pieces/reel) (C4315 - 500 pieces/reel)	2 significant figures + 1 multiplier

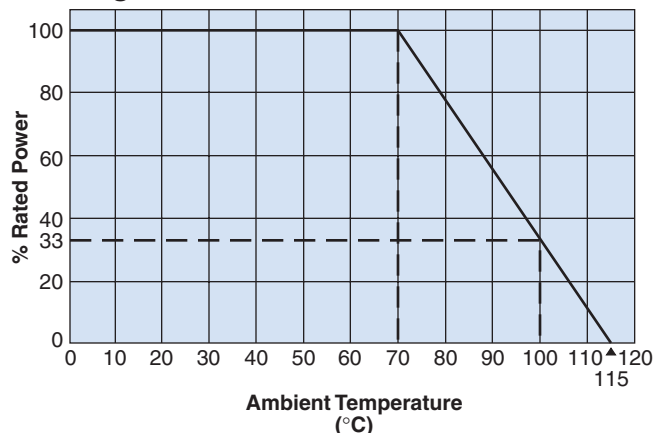
For further information on packaging, please refer to Appendix A.

applications and ratings

Part Designation	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	Resistance Change Characteristics	Resistance Range E-6	Resistance Tolerance	Absolute Maximum Working Voltage	Operating Temperature Range	Operation Torque
All styles except C4315	0.2W	±250	B (Linear)	100Ω - 1MΩ	±30%	100V	-30°C to +100°C	20 gm/cm to 200 gm/cm
C4315	0.1W				±25%	50V		

environmental applications

Derating Curve



Performance Characteristics

Parameter	Limits	Condition
High Temperature Exposure	±5.0%	240 ± 8 hours @ 100°C ± 3°C, no load
Rotational Life	±5.0%	100 ± 2 slider cycles over 90% of the effective rotation angle at 6 seconds per turn and return, no load
Moisture/Load	±5.0%	Rated voltage, 1.5 hr ON, 0.5 hr OFF for 350 ± 10 hours @ 40°C ± 2°C, 90 - 95% RH
Load Life	±5.0%	Rated voltage, 1.5 hr ON, 0.5 hr OFF for 1000 ± 12 hours @ 70°C ± 2°C, Condition @ 70°C for 8 hours to initialize
Temperature Cycling	±2.0%	5 cycles, 0.5 hr @ -30°C ± 3°C, 0.25 hr @ 25°C ± 2°C, 0.5 hr @ 100°C ± 3°C, 0.25 hr @ 25°C ± 2°C
Effect of Solder Heat	±2.0%	5 ± 1 seconds immersion of terminals in Sn 63 solder @ 250°C ± 5°C
Insulation Resistance	1 x 10 ⁴ MΩ minimum	Charge at 500 volts
Dielectric Strength	500 vac. minimum	1 minute