C4000

cermet single turn trimmable potentiometer

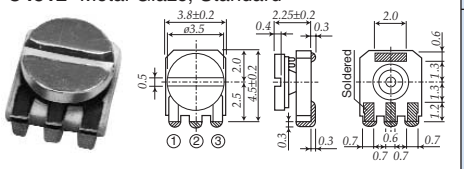
features

- 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

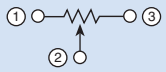
Voltage Adjust Type Dimensions *mm*

C4312 Metal Glaze, Standard



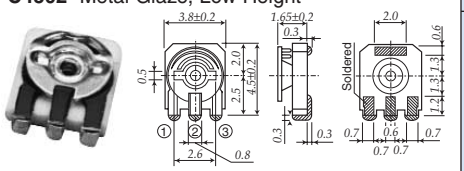
Recommended Pad: A

Equivalent Circuit



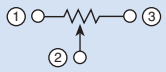
*A

C4302 Metal Glaze, Low Height



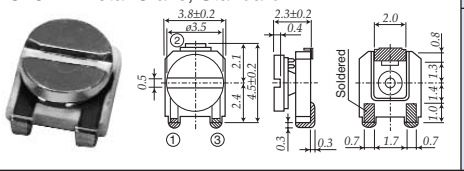
Recommended Pad: A

Equivalent Circuit



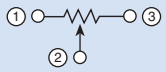
*B

C4314 Metal Glaze, Standard



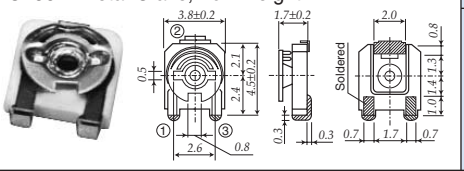
Recommended Pad: B

Equivalent Circuit



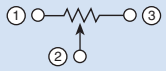
*A

C4304 Metal Glaze, Low Height



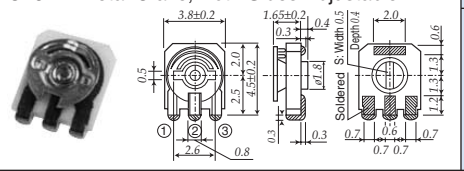
Recommended Pad: B

Equivalent Circuit



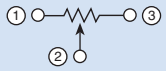
*B

C4322 Metal Glaze, Both Sides Adjustable



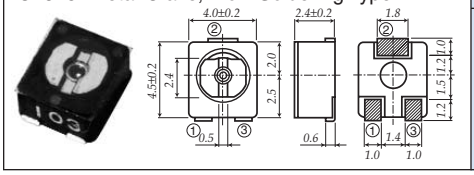
Recommended Pad: A

Equivalent Circuit



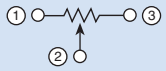
*A

C4315 Metal Glaze, Flow Soldering Type



Recommended Pad: C

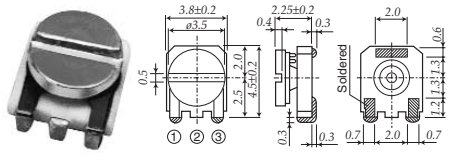
Equivalent Circuit



*A

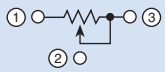
Current Adjust Type Dimensions *mm*

C4212 Metal Glaze, Standard



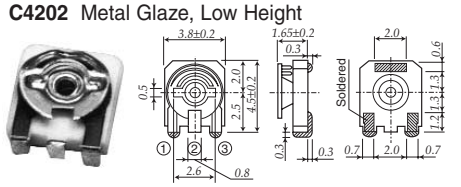
Recommended Pad: B

Equivalent Circuit



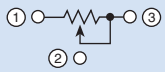
*A

C4202 Metal Glaze, Low Height



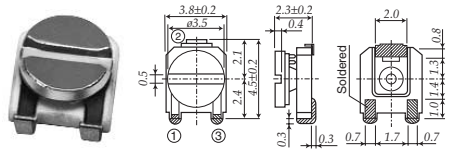
Recommended Pad: B

Equivalent Circuit



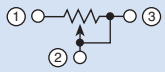
*B

C4214 Metal Glaze, Standard



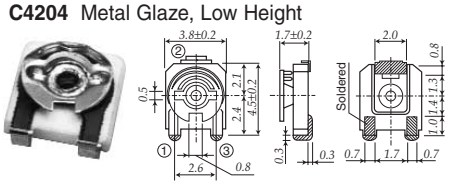
Recommended Pad: B

Equivalent Circuit



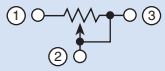
*A

C4204 Metal Glaze, Low Height



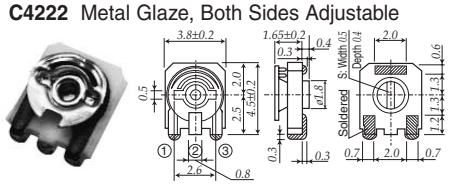
Recommended Pad: B

Equivalent Circuit



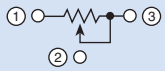
*B

C4222 Metal Glaze, Both Sides Adjustable



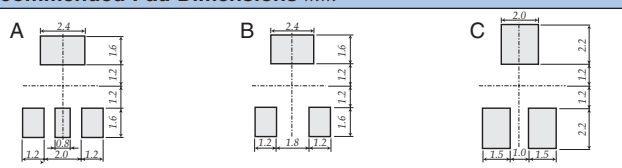
Recommended Pad: B

Equivalent Circuit



*C

Recommended Pad Dimensions *mm*



*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

KOA SPEER ELECTRONICS, INC.

C4000

cermet single turn trimmable potentiometer

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

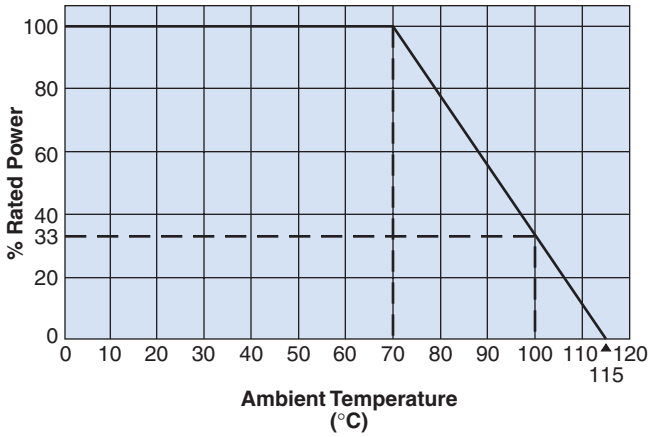
For further information on packaging, please refer to Appendix A.

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