

MODEL 21

4mm Surface Mount Chip

Cermet Trimming

Potentiometers



1

ELECTRICAL

Standard Resistance Range, Ohms	500 to 500K
Standard Resistance Tolerance	±30%
Input Voltage, Maximum	50 Vdc or rms not to exceed power rating
Power Rating, Watts	0.1 at 70°C derating to 0 at 100°C
End Resistance, Maximum	1% or 5 Ohms, whichever is greater
Actual Electrical Travel, Nominal	250°
Resolution	Essentially infinite
Contact Resistance Variation, Maximum	3%

ENVIRONMENTAL

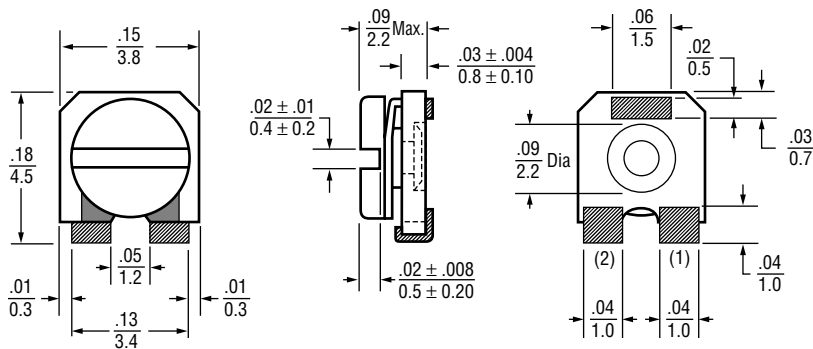
Temperature Coefficient, Maximum	±250ppm/°C
Operating Temperature Range	−40°C to +100°C
Thermal Shock	5 cycles, −40°C to +100°C (5% ΔRT)
Rotational Life	25 cycles (10% ΔRT)
Load Life at 0.1 Watts	1,000 hours at 70°C (15% ΔRT)
Resistance to Solder Heat	260°C for 5 sec. (2% ΔRT)
Humidity	40°C, 90 to 95% RH, 500 hours (5% ΔRT)
Temperature Exposure, Maximum	248°C, 3 sec.

MECHANICAL

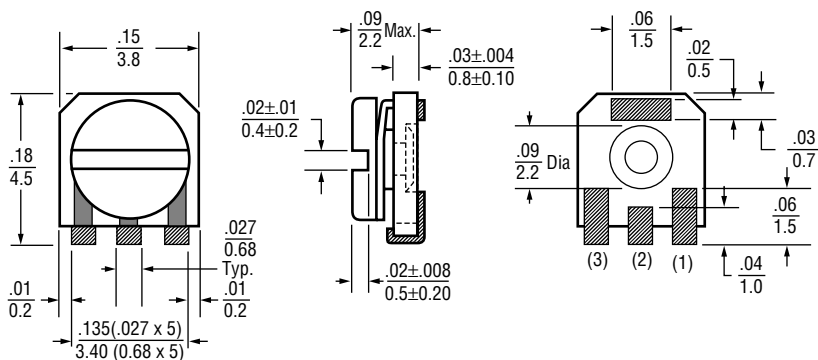
Torque, Maximum	4 oz.-in. (300 gr-cm)
Weight, Nominal	.004 oz. (0.11 grams)

Specifications subject to change without notice.

Model 21W

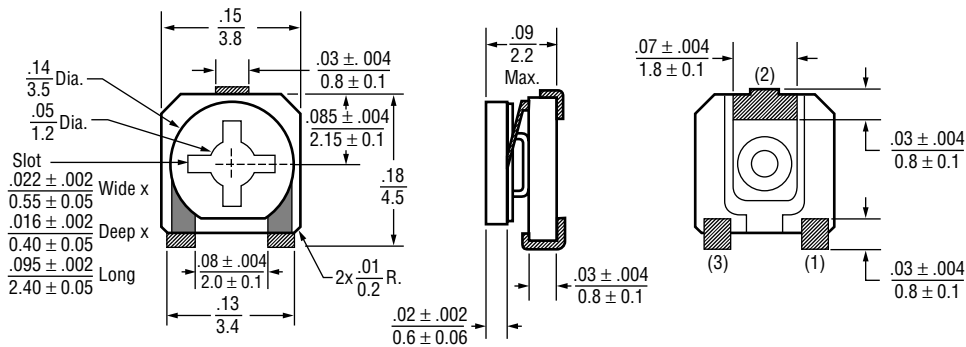


Model 21X



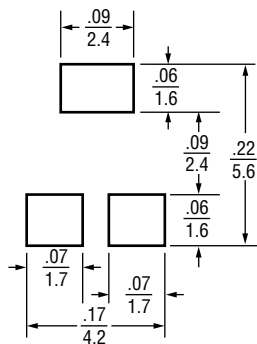
TOP ADJUSTMENT

Model 21Z

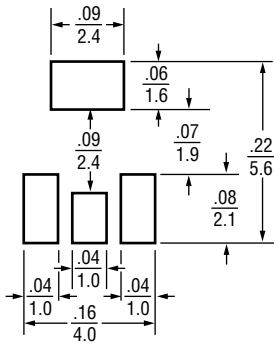


RECOMMENDED PCB LAYOUT

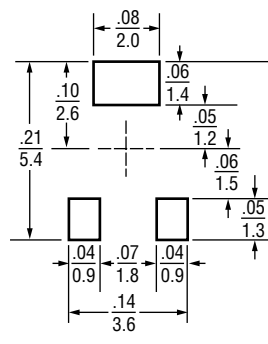
Model 21W



Model 21X



Model 21Z



STANDARD RESISTANCE VALUES, OHMS

500	1K	2K	5K	10K	20K	50K	100K	200K	500K
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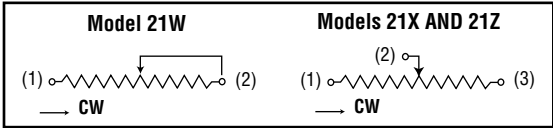
PACKAGING

Standard:	Boxes		
	Capacity	=	200 units
Option:	Embossed Tape		
	All units oriented with terminal pads adjacent to sprocket holes		
Tape:	Width	=	12 mm
	Sprocket	=	4 mm Pitch
	Capacity	=	750 units
Reel:	Diameter	=	7" (178mm)

ORDERING INFORMATION

Standard:		21	X	R	10K	
	Model Series					Resistance Value
	Style					Resistance Prefix
Option:		21	X	R	10K	TR
	Style					Packaging Option
						TR = Tape & Reel

CIRCUIT DIAGRAM



NOTES

English equivalents are based on 1 inch = 25.4mm and are provided for general information only.

Tolerances unless otherwise specified:
Linear = ± 0.3 mm (.01 in.)

DIMENSIONS
INCH
mm

THIRD ANGLE PROJECTION