

MODEL 21

4mm Surface Mount Chip Cermet Trimming Potentiometers

Distributor Item



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

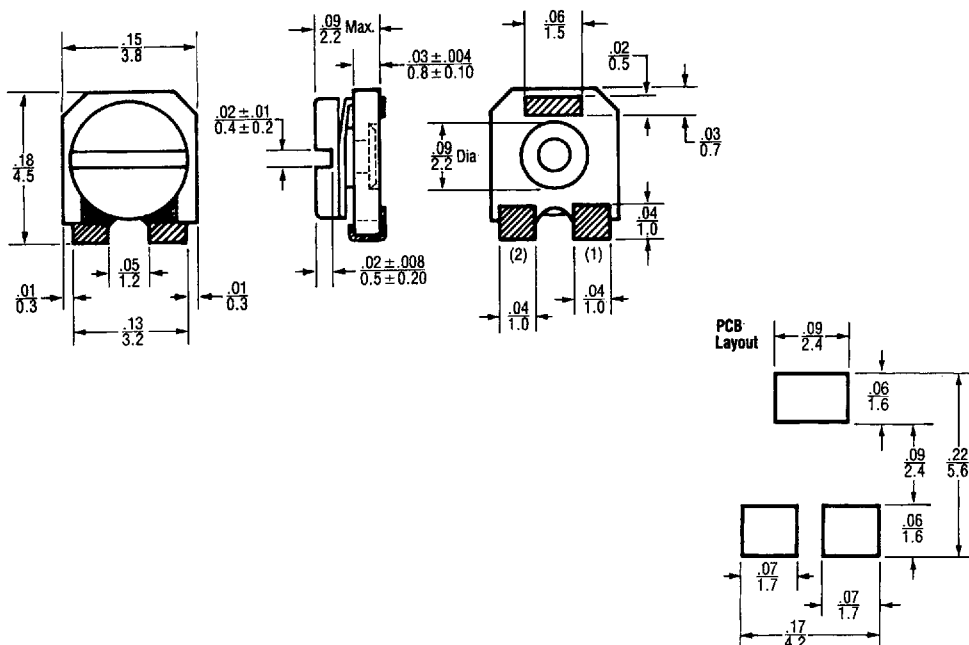
Torque, Maximum	4 oz.-in. (300 gr-cm)
Weight, Nominal	.004 oz. (0.11 grams)

Specifications subject to change without notice.

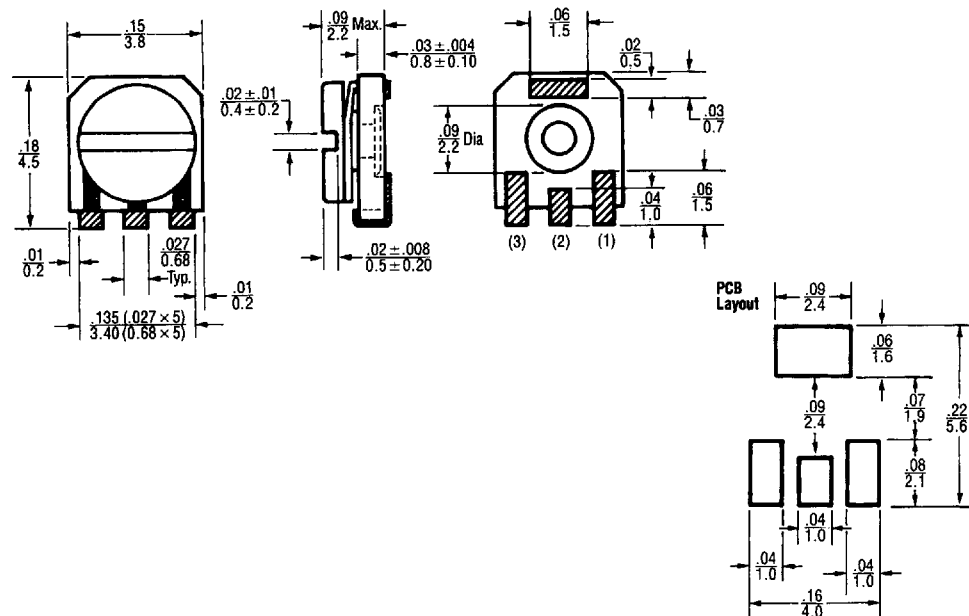
STANDARD RESISTANCE VALUES, OHMS

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

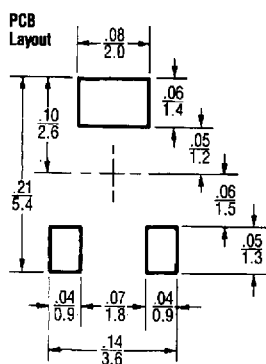
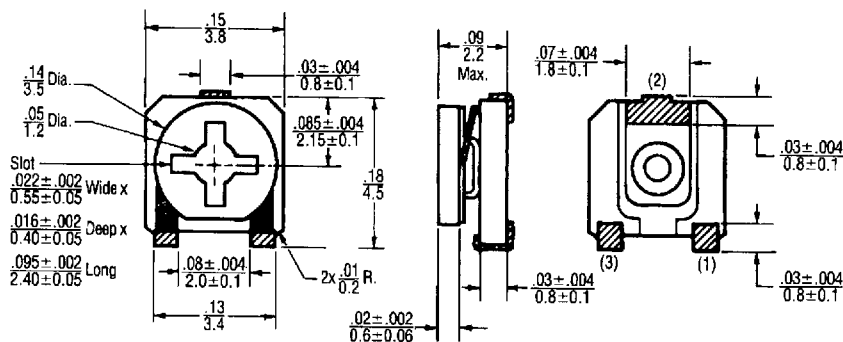
MODEL 21W



MODEL 21X



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PACKAGING

Standard: Plastic Bags

Capacity, Units = 200

Option: Embossed Tape

All units oriented with terminal pads adjacent to sprocket holes

Tape	Width	=	12 mm
	Sprocket	=	4 mm Pitch
	Capacity, Units	=	750
Reel	Diameter	=	7" (178mm)

ORDERING INFORMATION

Standard:

Model Series — **21** — Resistance Value
 Style — **X** — Resistance Prefix
R —
10K —

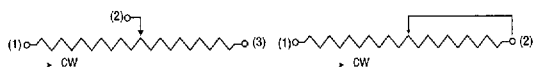
Option:

Style — **21 X R 10K** — Packaging Option
TR — TR = Tape & Reel

CIRCUIT DIAGRAM

Models 21X and 21Z

Model 21W



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.)

