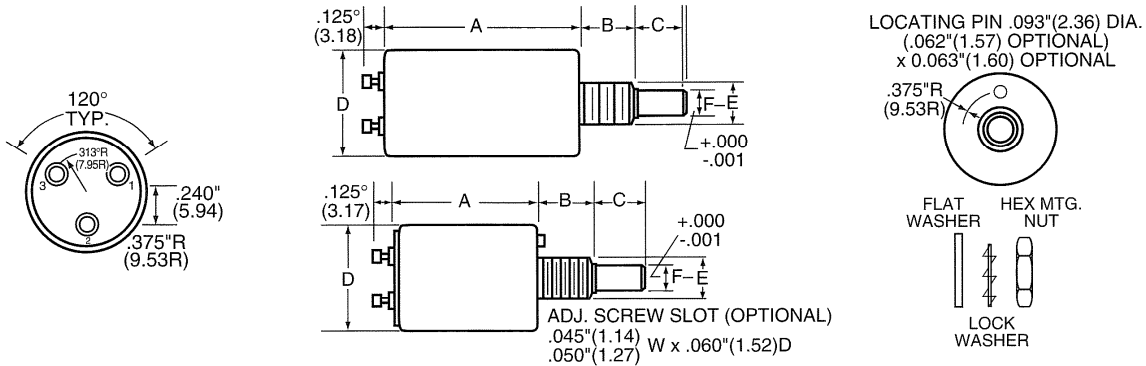
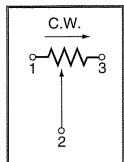


# ROTARY PRECISION POTENTIOMETERS MODEL 1000/1220 SERIES 1" DIAMETER, WIRE-WOUND, MULTI-TURN



Lock washers and hex-mtg. nuts supplied with each unit.  
Unless otherwise stated, tolerances are  $\pm 0.15'$ (.38)



**ORDERING INFORMATION**  
1220 — 50K

Indicate Type Number      Indicate Resistance Value

DIMENSIONS							
Model	Turns	Length			Diameter		
		A (Body)	B (Bushing)	C (Shaft)	D (Overall)	E (Bushing)	F (Shaft)
1000	10	1.344"(34.14)	.500"(12.70)	.500"(12.70)	1.000"(25.40)	.32 NEF 2A THD .375"(9.53)	.250"(6.35)
1005	5	.938"(23.83)	.500"(12.70)	.500"(12.70)	1.000"(25.40)	.32 NEF 2A THD .375"(9.53)	.250"(6.35)
1215	15	1.720"(43.68)	.500"(12.70)	.500"(12.70)	1.000"(25.40)	.32 NEF 2A THD .375"(9.53)	.250"(6.35)
1220	20	2.100"(53.34)	.500"(12.70)	.500"(12.70)	1.000"(25.40)	.32 NEF 2A THD .375"(9.53)	.250"(6.35)

NOTE: Metric conversion in mm in brackets

## SPECIFICATIONS

### ELECTRICAL

	STANDARD
Power Rating	1000-3W @ 40°C; 1005-2W @ 40°C; 1215-4W @ 40°C; 1220-5W @ 70°C;
Standard Resistance Range	1000-500Ω to 250KΩ; 1005-250Ω to 250KΩ; 1215-500Ω to 450KΩ; 1220-1KΩ to 600KΩ 8403/8503, 8405/8505-50Ω to 50KΩ
Resistance Tolerance	±5% std.
Temperature Coefficient (wire)	±20ppm/°C max.
Linearity (independent)	1000/1005-±0.5% (±0.1% avail.) 1215/1220-±0.1% (±0.05% avail.)
Noise During Adjustment (ENR)	100Ω max.
Absolute Minimum Resistance	1Ω or 0.25% (W.I.G.)
Insulation Resistance	1000MΩ @ 500 VDC

### MECHANICAL

	STANDARD
Operating Temperature Range	-65° to +125°C
Total Adjustment Turns	1000-10; 1005-5; 1215-15; 1220-20
Mechanical Rotation	Same as electrical rotation

Operating Torque	2 oz.-in. max.
Mechanical Stops	100 oz.-in.
Electrical Travel	1000-3600°; 1005-1080° 1215-5400°; 1220-7200°; All (+4°-0°)

### ENVIRONMENTAL

Models 1000, 1005, 1215 and 1220 meet, or exceed, all of the environmental and life requirements of MIL-R-12934.

Standard Resistance Values Available (Ω)	Nominal Resolution (%)			
	1000	1005	1215	1220
250	-	0.056	-	-
500	0.028	0.045	0.019	-
1K	0.023	0.045	0.018	0.014
2.5K	0.012	0.028	0.015	0.012
5K	0.0115	0.026	0.012	0.011
10K	0.010	0.024	0.010	0.010
25K	0.012	0.024	0.006	0.006
50K	0.0083	0.013	0.006	0.006
100K	0.0064	0.011	0.005	0.004
200K	0.0058	-	-	-
250K	0.0051	-	0.003	0.003
450K	-	-	0.003	-
600K	-	-	-	0.002