

ELECTRICAL SPECIFICATIONS

RESISTANCE RANGE ----- 50 TO 300K
RESISTANCE TOLERANCE ----- $\pm 5\%$
LINEARITY, INDEPENDENT ----- SEE CHART
RESOLUTION ----- SEE CHART
END RESISTANCE ----- 1 OHM OR 1%
ELECTRICAL TRAVEL ----- SEE CHART
NOISE ----- 100 OHMS MAX
POWER RATING ----- SEE CHART
INSULATION RESISTANCE ----- 100 MEGOHMS @ 1000 VDC
DIELECTRIC STRENGTH ----- 1000 VAC MIN.
MECHANICAL
NUMBER OF TURNS ----- SEE CHART
MECHANICAL TRAVEL ----- SEE CHART
TORQUE, ROTATIONAL ----- 2.8 OZ.IN.
SHAFT END PLAY ----- .005 T.I.R.
LIFE (SHAFT REVOLUTIONS) ----- SEE CHART
STOP STRENGTH ----- 125 OZ.IN. MIN.
ENVIRONMENTAL
OPERATING TEMPERATURE ----- -55C TO +105C
TEMPERATURE COEFFICIENT ----- SEE CHART
VIBRATION ----- 10HZ TO 2000HZ 15G
SHOCK ----- 50G 11MS
MOISTURE RESISTANCE ----- 40C 95%RH 120 HOURS

OPTIONS
SPECIAL SHAFTS BALL BEARINGS SPECIAL RESISTANCES
SERVO MOUNT SPECIAL LINEARITY DUAL GANGS

MATERIAL

HOUSING ----- THERMO-SETTING PLASTIC
SERVO U/D ----- ALUMINUM, ANODIZED
SHAFT ----- STAINLESS STEEL
TERMINALS ----- GOLD PLATED
BEARINGS ----- BUSHING

% RESOLUTION AND TEMPERATURE COEFFICIENT CHART

# SLIDEWIRE (INFINITE RESOLUTION)												
RESIS. MODEL	.5	1	2	5	10	20	50	100	200	500	1K	2K
-3	#	#	#	#	#	#	.180	.145	.105	.084	.066	.048
-5	#	#	#	#	#	#	.108	.078	.061	.048	.035	.039
-10	#	#	#	#	#	#	.056	.040	.031	.023	.026	.020
TEMP CO	80 PPM/°C											
	20 PPM/°C											

ORDERING PART NO.

SMR46B - 10 - 1 OR 2 - RESIS.

MODEL
OR 5 NO. OF SWITCHES (NOTE: -1 HAS ONE SWITCH)
OR 3 NO. OF SWITCHES

TOLERANCES

XX = +/- .010" FRACT. = +/- 1/64"
XXX = +/- .005" ANGLES = +/- 1/2°

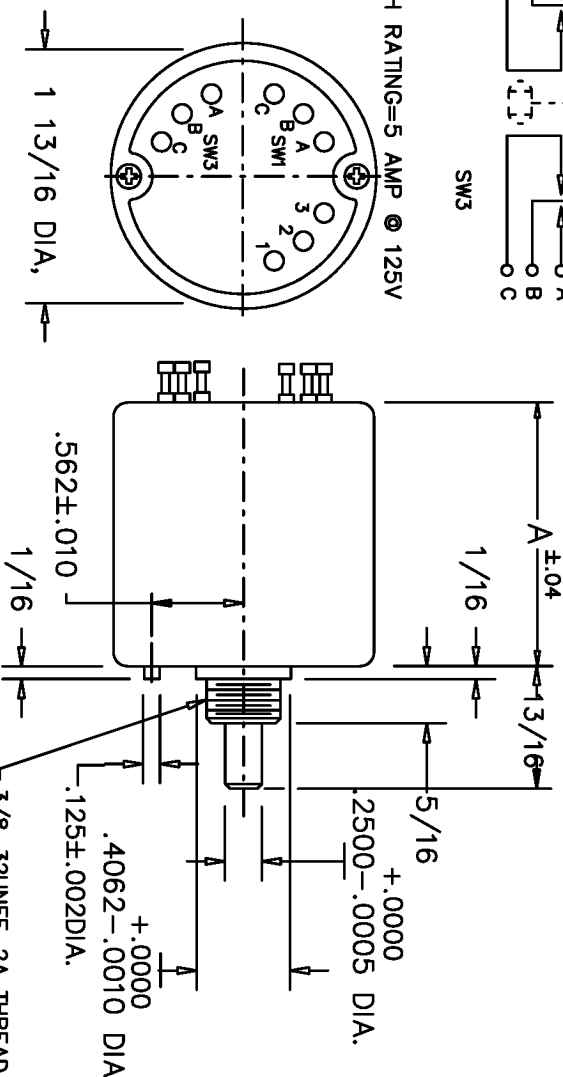
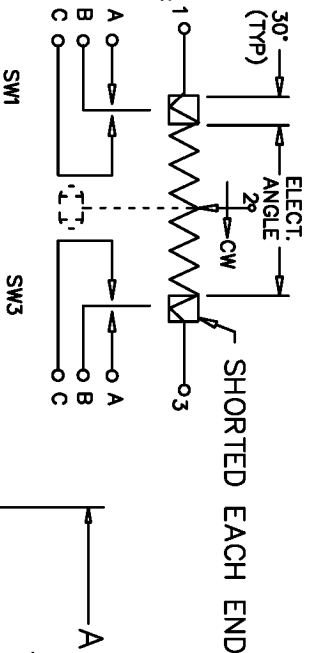
ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

REV. BY DATE

H AT 1-23-03

PART NO. SMR46B

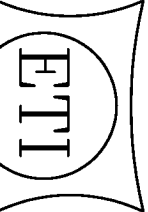
REVISED



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TITLE

WIREWOUND
MULTI-TURN
POTENTIOMETER



CARLSBAD
SYSTEMS
CALIFORNIA

PART NO.

SMR46B