

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE _____ 1/2 OHM TO 300K OHM
 RESISTANCE TOLERANCE _____ ±5%
 LINEARITY, INDEPENDENT _____ SEE CHART
 RESOLUTION _____ SEE CHART
 END RESISTANCE _____ 1 OHM OR 1%
 ELECTRICAL TRAVEL _____ SEE CHART
 NOISE _____ SEE CHART
 POWER RATING _____ 100 OHMS MAX
 INSULATION RESISTANCE _____ SEE CHART
 DIELECTRIC STRENGTH _____ 100 MEGOHMS AT 1000 VDC MIN.
 _____ 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 _____ -55°C TO +105°C
 TEMPERATURE COEFFICIENT _____ SEE CHART
 VIBRATION _____ 10HZ TO 2000HZ 15G
 SHOCK _____ 50G 11MS
 MOISTURE RESISTANCE _____ 40°C 95%RH 120 HOURS

OPTIONS

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

REV.	BY	DATE	PART NO.
E	BT	10-2-00	MR46B



% RESOLUTION AND TEMPERATURE COEFFICIENT CHART

RESIS. MODEL	# SLDREWIRE (INFINITE RESOLUTION)									
	.5	1	2	5	10	20	50	100	200	500
-3	#	#	#	#	#	#	#	#	#	#
-5	#	#	#	#	#	#	#	#	#	#
-10	#	#	#	#	#	#	#	#	#	#

ELECTRICAL TRAVEL	MECHANICAL TRAVEL	LINEARITY (IND.)	NO. OF TURNS	POWER RATING @ 40°C	ROTATIONAL LIFE (TURNS)	WEIGHT	DIM.
1080'±5"	1080'±10"-0'0.5%	0.5%	3	2 WATTS	600,000	2.8 OZ.	1.50
1800'±5"	1800'±10"-0'0.5%	0.5%	5	2.5 WATTS	1,000,000	3.2 OZ.	1.50
3600'±5"	3600'±10"-0'0.25%	0.25%	10	5 WATTS	2,000,000	4.2 OZ.	2.20

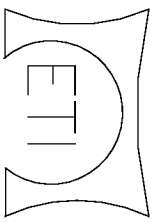
MATERIAL
 HOUSING _____ ALUMINUM, ANODIZED
 SERVO LID _____ ALUMINUM, ANODIZED
 SHAFT _____ STAINLESS STEEL
 TERMINALS _____ SILVER PLATED
 BEARINGS _____ BUSHING

TOLERANCES

XX = +/- .010" FRACT. = +/- 1/64"
 XXX = +/- .005" ANGLES = +/- 1/2°
 ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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TITLE
 WIREWOUND
 MULTI-TURN
 POTENTIOMETER



SYSTEMS
 CARLSBAD
 CALIFORNIA

PART NO.
 MR46B