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REV.	BY	DATE	APPRVD.
G	AT	12-11-01	

P/N  
ADDED MOUNTING PLATE

SP22G

**SPECIFICATIONS**

ELECTRICAL

RESISTANCE RANGE-----500,1K,2K,5K,10K,20K,50K,100K  
 RESISTANCE TOLERANCE-----±10%  
 LINEARITY INDEPENDENT-----±1.0%  
 POWER RATING-----1.0 WATTS  
 ELECTRICAL ANGLE-----340°±4°  
 END VOLTAGE-----0.2% MAX  
 RESOLUTION-----ESSENTIALLY INFINITE  
 OUTPUT SMOOTHNESS-----BELOW 0.1% AGAINST INPUT VOLTAGE  
 CONTACT RESISTANCE VARIATION-----BELOW 2%  
 INSULATION RESISTANCE-----1000MEGΩHMS @ 500VDC MIN.  
 DIELECTRIC STRENGTH-----500 VAC

MECHANICAL

MECHANICAL ANGLE-----CONTINUOUS  
 ROTATIONAL TORQUE-----0.7 OZ.IN.  
 SHAFT END PLAY-----.006MAX.  
 TEMPERATURE COEFFICIENT-----±400 PPM/°C  
 WEIGHT, APPROX.-----1.1 OZ.  
 ROTATIONAL LIFE-----10,000,000 TURNS

ENVIRONMENTAL

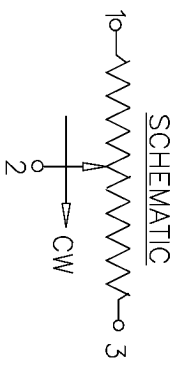
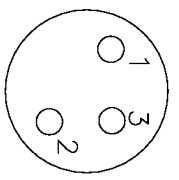
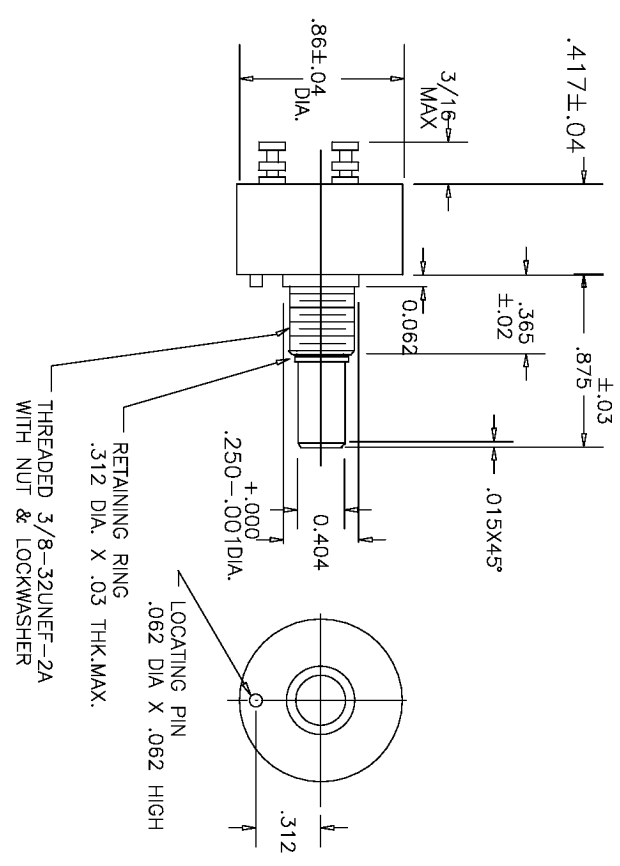
OPERATING TEMPERATURE-----55°C TO +105°C  
 TEMPERATURE COEFFICIENT-----±400 P.P.M./°C  
 VIBRATION-----10HZ TO 2000HZ 15G  
 SHOCK-----50G 11MS  
 MOISTURE RESISTANCE-----40°C 95%RH 120 HOURS

MATERIALS

HOUSING-----HIGH TEMPERATURE PLASTIC  
 TERMINALS-----SOLDERABLE DOUBLE TURRET  
 SHAFT-----STAINLESS STEEL  
 ELEMENT-----CONDUCTIVE PLASTIC

OPTIONS

FRONT SHAFT MODIFICATIONS  
 CENTER TAP  
 O-RING SHAFT SEAL  
 SEALED BODY  
 SPECIAL ELECTRICAL / MECHANICAL ANGLES  
 SPECIAL LINEARITY & RESISTANCE TOLERANCES  
 SERVO MOUNT (SEE SP22GS)



TOLERANCES

XX = +/- .100" FRACT. = +/- 1/64"  
 XXX = +/- .005" ANGLES = +/- 1/2"  
 ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

SCALE	DATE:	10-19-00
NONE	BY	
	APPRVD	BT
CODE IDENT: 19477		



ETI SYSTEMS  
 CARLSBAD CALIFORNIA

TITLE

SINGLE TURN POTENTIOMETER

PART NO.

SP22G