

**SPECIFICATIONS**

**ELECTRICAL**

RESISTANCE VALUES ----- 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K  
 RESISTANCE TOLERANCE ----- ±1.0%  
 LINEARITY(INDEPENDENT) ----- ±1.0%  
 ELECTRICAL ANGLE ----- 340±.5°  
 END RESISTANCE ----- 0.5% MAX.  
 RESOLUTION ----- ESSENTIALLY INFINITE  
 INSULATION RESISTANCE ----- 1000MEGΩHMS @ 500 VDC  
 DIELECTRIC STRENGTH ----- 500 VAC  
 POWER RATING ----- 1 WATT  
 CONTACT RESIS. VARIATION ----- BELOW 2% C.R.V.  
 OUTPUT SMOOTHNESS ----- LESS THAN 0.1%

**MECHANICAL**

NO OF TURNS ----- 1  
 MECHANICAL ROTATION ----- CONTINUOUS  
 ROTATIONAL LIFE ----- 10,000,000 TURNS  
 TORQUE ----- BELOW 0.8 OZ.IN.  
 WEIGHT ----- APPROX 0.7 OZ.

**ENVIRONMENTAL**

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

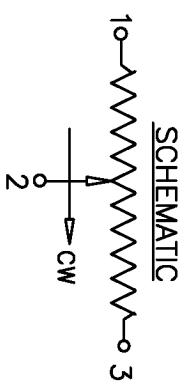
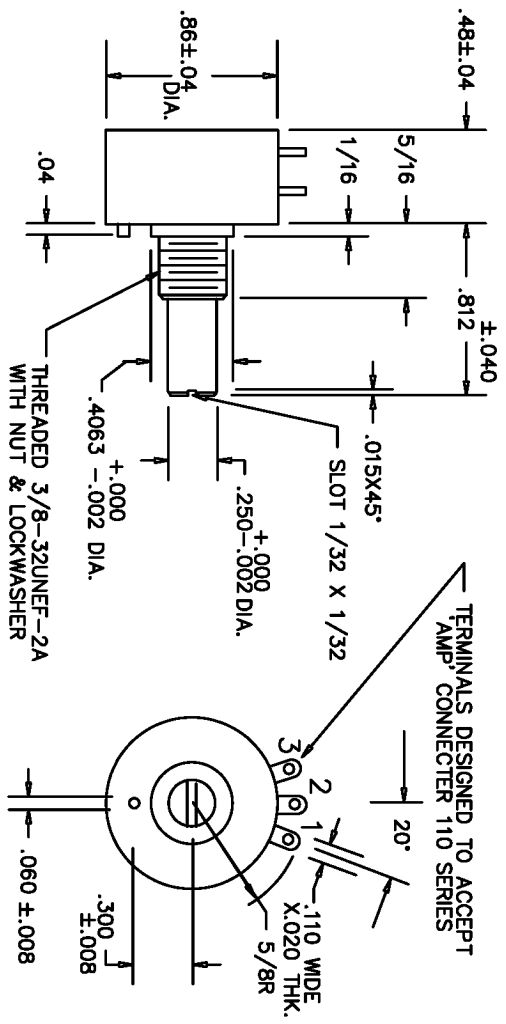
**MATERIALS**

HOUSING----- HIGH TEMP. THERMO PLASTIC  
 TERMINALS----- GOLD PLATED BRASS  
 BUSHING----- BRASS  
 SHAFT----- STAINLESS STEEL  
 ELEMENT----- CONDUCTIVE PLASTIC

**OPTIONAL FEATURES**

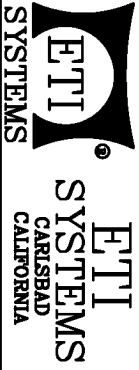
SHAFT MODIFICATIONS  
 REAR SHAFT  
 CENTER TAP  
 O'RING SHAFT SEAL

REV.	BY	DATE	APPRVL.	P/N
A	GC	3-2-01	BT	10%RT / 1.0%LT / 10,000,000 TURN LIFE
B	BT	3-29-01	BT	500 WAS 500K; GOLD TERMS WAS SILVER



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

SCALE	DATE: 10-19-00
NONE	BY
CODE	APPRV'D
IDENT: 19477	BT



**TITLE**  
 SINGLE TURN  
 POTENTIOMETER

**PART NO.**  
 SP22F