

## CAPACITOR SPECIFICATION

PART NUMBER:        **31173**

<u>PARAMETER</u>	<u>VALUE</u>	<u>UNITS</u>	<u>Q.A.</u>	<u>METHOD</u>
CAPACITANCE:	0.10	uF	100%	120 Hz, R.T.*
TOLERANCE:	± 10	%		
RATED VOLTAGE:	50.0	kV		
TEST VOLTAGE:	55.0	kV	100%	60 sec HIPOT
RATED ENERGY:	125	Joules		
RATED VOLTAGE REVERSAL:	20	%		
MAX. VOLTAGE REVERSAL:	80	%		
MAX. PEAK CURRENT:	25	kA		
MAX. CONTINUOUS REP RATE:	1	pps		
MAX. RMS CURRENT	25	A		
MAX. OPERATING TEMP.	40	°C		
MIN. OPERATING TEMP.	-10	°C		
DESIGN LIFE AT RATED:	1.0E+05	charge / discharge cycles		
DC LIFE:	5.0E+04	hours		
RELIABILITY AT LIFE:	90	%		
MAX. DISSIPATION FACTOR	0.30	%	100%	120 Hz, R.T.*
APPROX. INDUCTANCE	20	nH	SAMPLE	STANDING WAVE
MIN. INSULATION RESISTANCE	1000	Mohm-uF	SAMPLE	DECAY Vr / R.T.* / 120s / 120s
CASE STYLE:	Single-Ended Plastic Case (Type "S")			
BUSHING:	50 kV "S"			
ELECTRODE:	2 ea RAILS with 2 ea 10-32 UNF-2B Threaded Holes			
DIMENSIONS:	2.30 x 5.90 x 9.8	inches		
	58 x 150 x 249	mm		
WEIGHT:	6.5	lbs		
	3.0	kg		

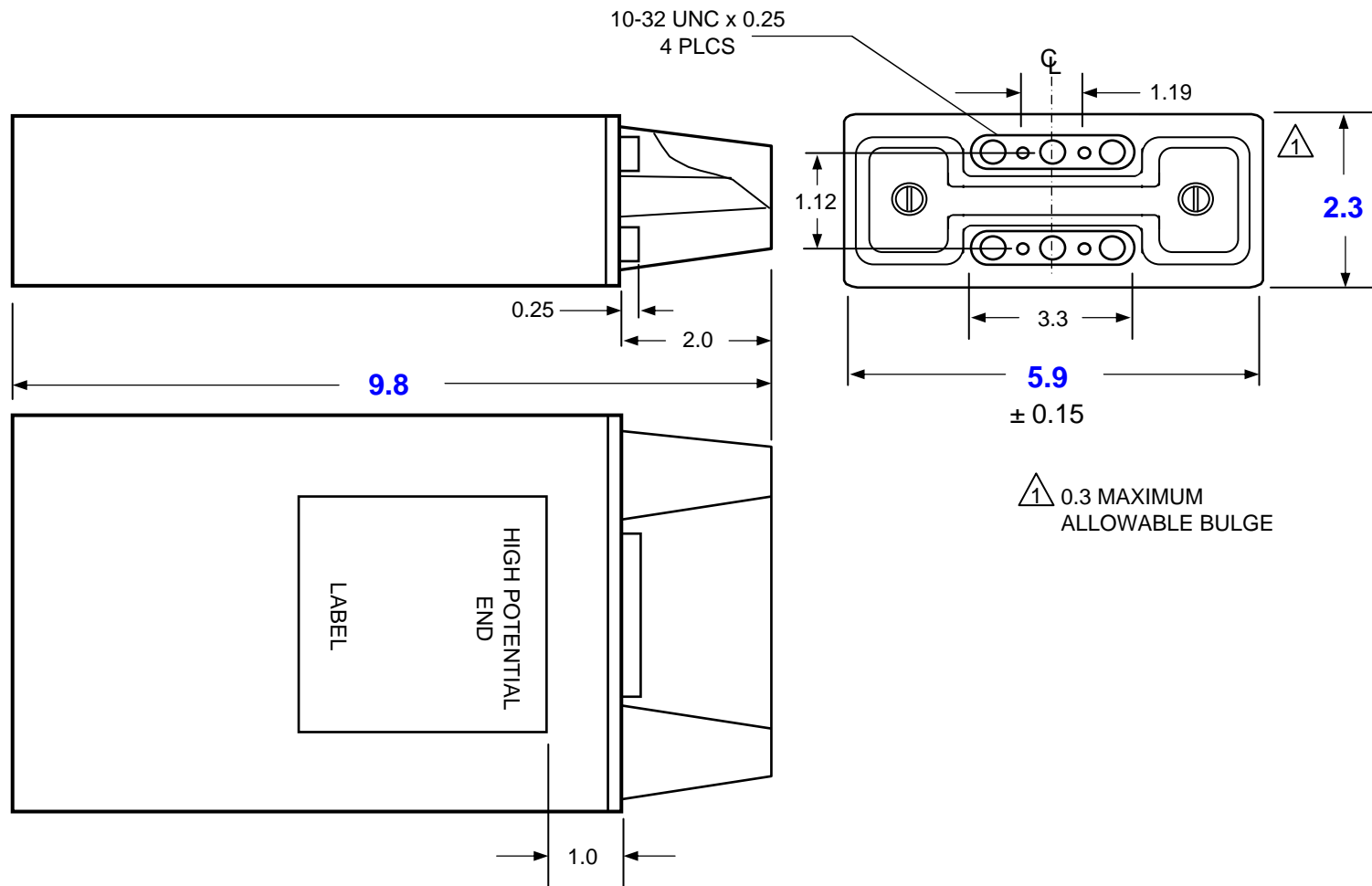
**NOTES:**


**NOTE 1:** LEAK TEST: 100 % test and inspection

**NOTE 2:** CASTOR OIL IMPREGNANT (non-PCB)

\* R.T. = Room temperature (23 ± 7 °C)

	SIZE	FSCM	DRAWING NUMBER	REV
	<b>A</b>	<b>58307</b>	<b>31173</b>	<b>E</b>
	<b>SHEET 2</b>			



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS      ANGLES .X ± .1            ± 2° .XX ± .03 .XXX ± .010 DO NOT SCALE DRAWING	CONTRACT NO.		 <b>GENERAL ATOMIC ELECTRONIC SYSTEMS</b> 4949 GREENCRAIG LANE    SAN DIEGO, CA 92123			
			APPROVALS					
		TREATMENT	DRAWN		SIZE	FSCM	DRAWING NUMBER	REV LTR
		FINISH	CHECKED					
NEXT ASSY	USED ON	SIMILAR TO	SPECIAL MARKING SYS	ENGR	DATE: Unknown		SHEET 9 of 9	
APPLICATION				DESIGN ACTIVITY	SCALE - NONE			
				GOVERNMENT ACTIVITY				