



# CAPACITOR SPECIFICATION

PART NUMBER: **31151**

PARAMETER	VALUE	UNITS	Q.A.	METHOD
CAPACITANCE:	0.60	uF	100%	120 Hz, R.T.*
TOLERANCE:	+10 , -10	%		
RATED VOLTAGE:	30.0	kV		
TEST VOLTAGE:	35.0	kV	100%	60 sec HIPOT
RATED ENERGY:	270	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:	30,000	hours		
RELIABILITY AT LIFE:	90	%		
MAX. DISSIPATION FACTOR	0.35	%	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"			
TERMINALS:	2 ea RAILS with 2 ea 10-32 UNF-2B Threaded Holes			
DIMENSIONS:	2.3 x 5.9 x 11.8	inches		
	58 x 150 x 298	mm		
WEIGHT:	7.6	lbs		
	3.5	kg		

**NOTES:**

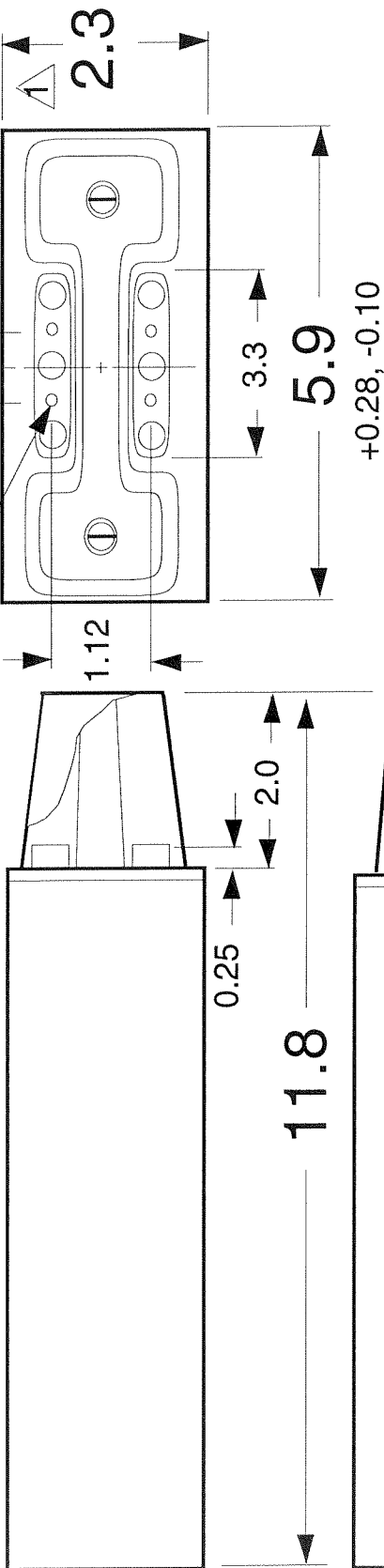
NOTE 1: LEAK TEST: 100 % test and inspection

NOTE 2: CO IMPREGNANT (non-PCB)

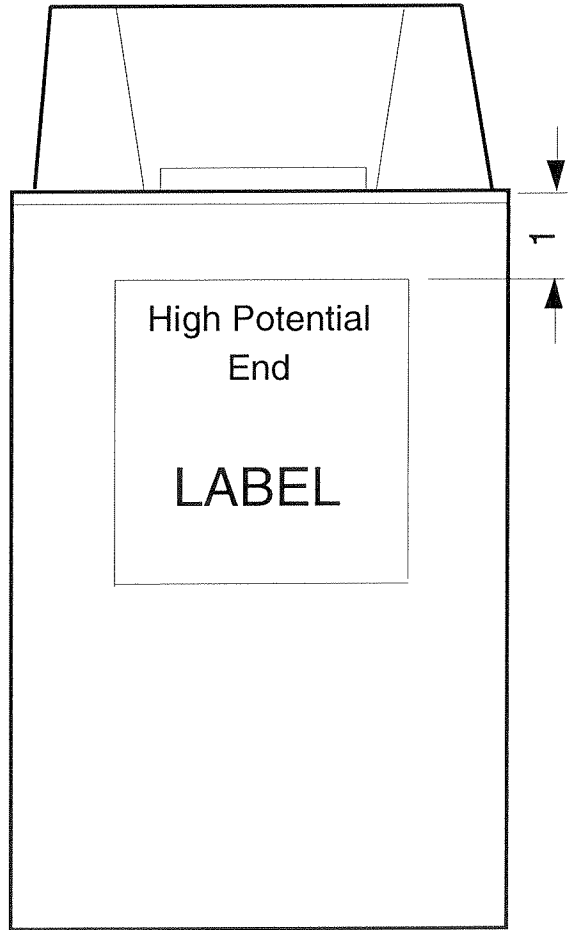
\*R.T. = room temperature

	SIZE	FSCM	DRAWING NUMBER	REV LTR
	A	58307	31151	K
			SHEET	2

10-32 UNC x 0.25  
4 PLCS



▲ 0.3 MAXIMUM  
ALLOWABLE BULGE



<b>GENERAL ATOMICS</b> Energy Products		<b>ELECTRONIC SYSTEMS</b> 4949 GREENCRAIG LANE SAN DIEGO CA. 92123	
TITLE OUTLINE DRAWING		PART No. <b>31151</b> <b>0.60 uF ± 10 % , 30.0 KV</b>	
SIZE <b>A</b>	FSCM <b>58307</b>	DRAWING NUMBER <b>31151</b>	REV LTR <b>K</b>
SCALE <b>NONE</b>	DATE <b>08/03/99</b>	PAGE <b>9</b> OF <b>9</b>	
CONTRACT NUMBER		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES X ± .1    .XX ± .03    .XXX ± .010	
DATE	PREPARED	PROJECT MANAGER	PROJECT ENGINEER
CHECKED ENGINEER	DESIGN ACTIVITY APPROVAL	APPROVED	CHECKED BY
GOVERNMENT ACTIVITY APPROVAL	DRAWN BY	J Bates	
NEXT ASSY APPLICATION	USED ON	APPLICATION	