



**GENERAL ATOMICS**

Energy Products

GENERAL ATOMICS ELECTRONIC SYSTEMS

CAPACITORS AND POWER SUPPLIES

# CAPACITOR SPECIFICATION

**PART NUMBER: 31190 or 31190M**

<u>PARAMETER</u>	<u>VALUE</u>	<u>UNITS</u>	<u>Q.A.</u>	<u>METHOD</u>
CAPACITANCE:	0.08	uF	100%	120 Hz, R.T.*
TOLERANCE:	+10, -10	%		
RATED VOLTAGE:	100	kV		
TEST VOLTAGE:	100	kV	100%	60 sec HIPOT
RATED ENERGY:	400	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:	3.0E+04	charge / discharge cycles		
DC LIFE:	500	hours		
RELIABILITY AT LIFE:	90	%		
MAX. DISSIPATION FACTOR	0.50	%	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:	TYPE S			
BUSHING:	RAILS			
ELECTRODE STUD:	10-32 x .25 UNF - (M = METRIC Version M6 x 1, .25" Deep)			
DIMENSIONS:	2.3 x 5.9 x 12.8	inches		
	58 x 150 x 325	mm		
WEIGHT:	8.0	lbs		
	3.6	kg		

**NOTES:**

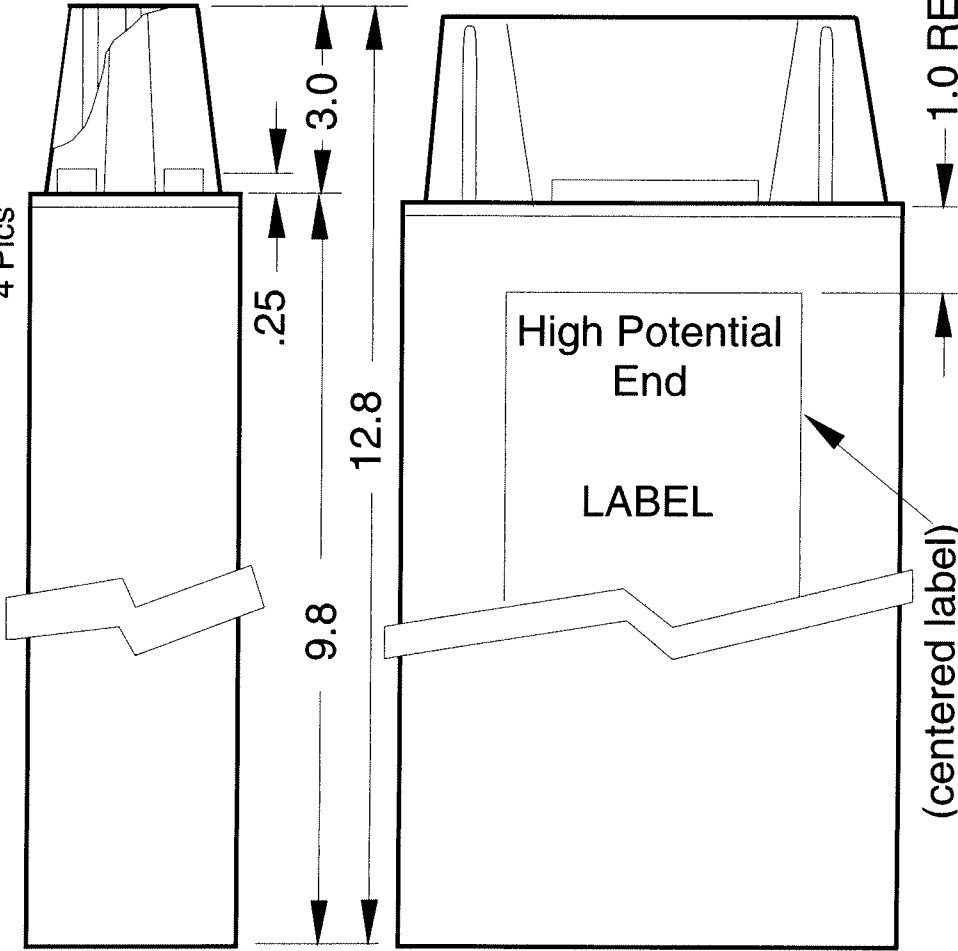
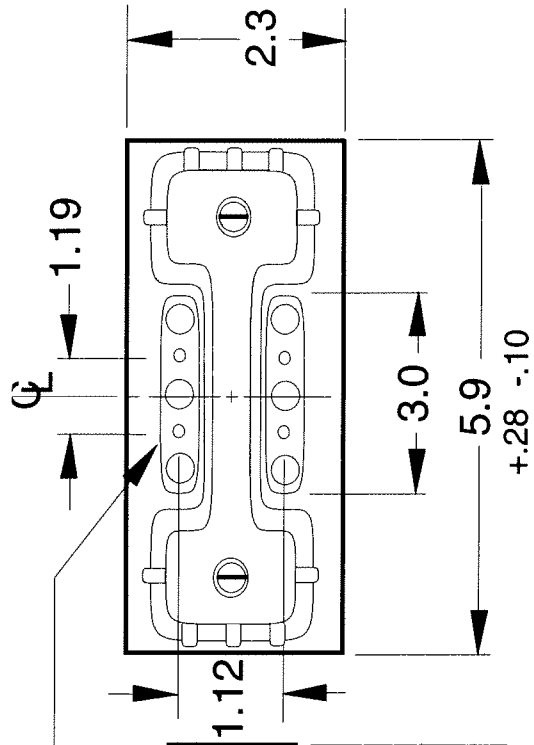
**NOTE 1:** LEAK TEST: 100 % test and inspection

**NOTE 2:** CO IMPREGNANT (non-PCB)

\*R.T. = room temperature

	SIZE	FSCM	DRAWING NUMBER	REV LTR
	A	58307	31190	P
			SHEET	2

10-32 UNC x .25 OR  
Metric: M6 x 1 x 0.25" Deep  
4 Plcs



(centered label)

<b>GENERAL ATOMICS</b> Energy Products		<b>ELECTRONIC SYSTEMS</b> 4949 GREENCRAIG LANE SAN DIEGO CA. 92123	
<b>CONTRACT NUMBER</b>		<b>TITLE</b>	
<b>DATE</b>		<b>OUTLINE DRAWING</b>	
<b>PREPARED</b>		<b>PROJECT</b>	
<b>CHECKED</b>		<b>MANAGER</b>	
<b>ENGINEER</b>		<b>PROJECT</b>	
<b>DESIGN ACTIVITY APPROVAL</b>		<b>ENGINEER</b>	
<b>GOVERNMENT ACTIVITY APPROVAL</b>		<b>APPROVED</b>	
<b>DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .X ± .1 .XX ± .03 .XXX ± .010</b>		<b>SIZE</b>	
<b>PROJECT MANAGER</b>		<b>A</b>	
<b>PROJECT ENGINEER</b>		<b>FSCM</b>	
<b>APPROVED</b>		<b>58307</b>	
<b>CHECKED BY</b>		<b>DRAWING NUMBER</b>	
<b>DRAWN BY</b>		<b>31190</b>	
<b>NEXT ASSY USED ON</b>		<b>REV LTR</b>	
<b>APPLICATION</b>		<b>P</b>	
		<b>SCALE</b>	
		<b>NONE</b>	
		<b>DATE</b>	
		<b>PAGE 9 OF 9</b>	