



**GENERAL ATOMICS**

Energy Products

GENERAL ATOMICS ELECTRONIC SYSTEMS

CAPACITORS AND POWER SUPPLIES

# CAPACITOR SPECIFICATION

PART NUMBER: **32933**

PARAMETER	VALUE	UNITS	Q.A.	METHOD
CAPACITANCE:	621	uF	100%	120 Hz, R.T.*
TOLERANCE:	± 10	%		
RATED VOLTAGE:	22.0	kV		
TEST VOLTAGE:	23.0	kV	100%	60 sec HIPOT
RATED ENERGY:	150.3	kJ		
RATED VOLTAGE REVERSAL:	10	%		
MAX. VOLTAGE REVERSAL:	80	%	100 %	1 CYCLE
RATED PEAK CURRENT:	65	kA		
MAX. PEAK CURRENT (FAULT):	130	kA	100 %	1 CYCLE
MAX. CW RMS CURRENT:	75	Amps RMS		
MAX. OPERATING TEMP.	40	°C		
MIN. OPERATING TEMP.	-10	°C		
DESIGN LIFE AT RATED:	1.0E+03	charge / discharge cycles		
DC LIFE:	1.0E+01	charge / discharge cycles		
RELIABILITY AT RATED LIFE:	90	%		
MAX. DISSIPATION FACTOR:	2.00	%	100%	1000 Hz, R.T.
MAXIMUM INDUCTANCE:	500	nH	SAMPLE	STANDING WAVE
MIN. INSULATION RESISTANCE:	1000	Mohm-uF	SAMPLE	DECAY Vr/23oC/120s/120s
CASE STYLE:	WELDED STEEL CAN			
BUSHING:	2 ea 25 kV LOW PROFILE, BOTH POSITIVE			
ELECTRODE:	1/2-13 UNC X 0.5 DEEP			
CASE TERMINAL:	6 ea 3/8-16 UNC X 0.5 DEEP, NEGATIVE			
DIMENSIONS:	11.0 x 16.0 x 28.0	inches		
	279 x 406 x 711	mm		
APPROXIMATE WEIGHT	224	lbs		
	102	kg		

**NOTES:**

NOTE 1: LEAK TEST: 100 % test and inspection

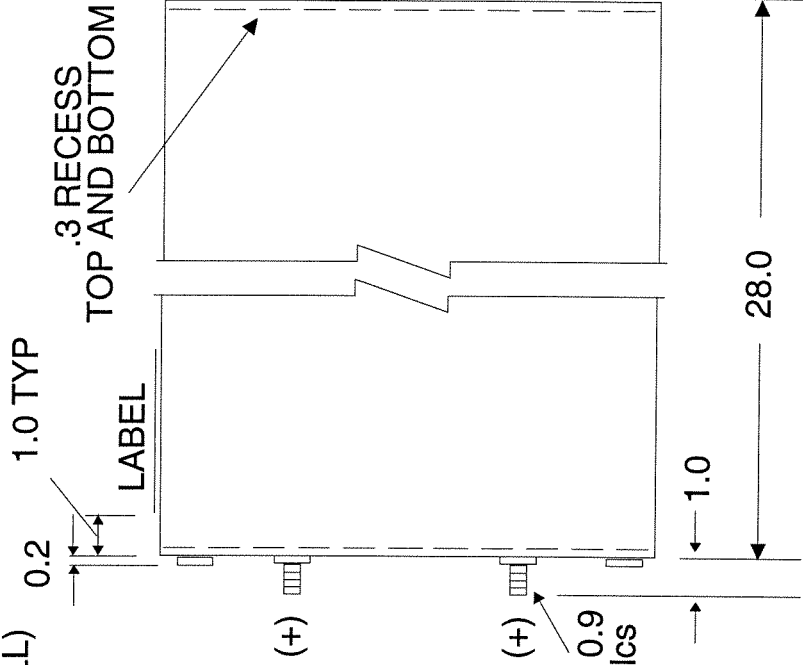
NOTE 2: RSO IMPREGNANT (non-PCB)

\*R.T. = room temperature (23 ± 7 °C)

SIZE	FSCM	DRAWING NUMBER	REV LTR
A	58307	32933	A
SHEET			2

FILL PORT (0.9 DIA x 0.3 TALL)  
2 Plcs

BUSHING  
(5.0 DIA x 0.3 TALL)



0.2  
1.0 TYP  
LABEL

.3 RECESS  
TOP AND BOTTOM

(+)

(+)

1/2-13 x 0.9  
2 Plcs

1.0

28.0

2.00

7.00

1.0

16.0

14.00

5.25 ±.1

5.5

1.0

3/8-16 UNC x 0.5 Deep  
Weld Nut, 6 Plcs

Label Terminals  
(Both Positive)

△

△

△ Dimensions held 2" up from base and  
down from top. 0.38" bow maximum per panel.

<b>GENERAL ATOMICS</b> Energy Products		<b>ELECTRONIC SYSTEMS</b> 4949 GREENCRAIG LANE SAN DIEGO CA. 92123	
<b>OUTLINE DRAWING</b>			
<b>CAPACITOR, PART No. 32933</b> 621 uF ± 10 %, 22.0 kV			
SIZE	FSCM	DRAWING NUMBER	REV LTR
<b>A</b>	<b>58307</b>	<b>32933</b>	<b>A</b>
SCALE	NONE	DATE	07/12/2006
		PAGE 14 of 14	

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .X ± .1 .XX ± .03 .XXX ± .010	CONTRACT NUMBER
	DATE
PROJECT MANAGER	PREPARED
PROJECT ENGINEER	CHECKED
APPROVED	ENGINEER
COMPONENTS USED ON	DESIGN ACTIVITY APPROVAL
APPLICATION	GOVERNMENT ACTIVITY APPROVAL
NEXT ASSY	CHECKED BY
DRAWN BY	DRAWN BY