



**GENERAL ATOMICS**

Energy Products  
ELECTRONIC SYSTEMS

CAPACITORS AND POWER SUPPLIES

# CAPACITOR SPECIFICATION

PART NUMBER: **35282**

<u>PARAMETER</u>	<u>VALUE</u>	<u>UNITS</u>	<u>Q.A.</u>	<u>METHOD</u>
CAPACITANCE:	0.06	uF	100%	120 Hz, R.T.*
TOLERANCE:	+10, -10	%		
RATED VOLTAGE:	50.0	kV		
TEST VOLTAGE:	50.0	kV	100%	60 sec HIPOT
RATED ENERGY:	75	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	oC		
MIN. OPERATING TEMP.	-10	oC		
DESIGN LIFE AT RATED:	1.0E+05	charge / discharge cycles		
DC LIFE:	2.0E+03	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:	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 9.8	inches		
	58 x 150 x 248	mm		
WEIGHT:	6.5	lbs		
	3.0	kg		

**NOTES:**

NOTE 1: LEAK TEST: 100 % test and inspection

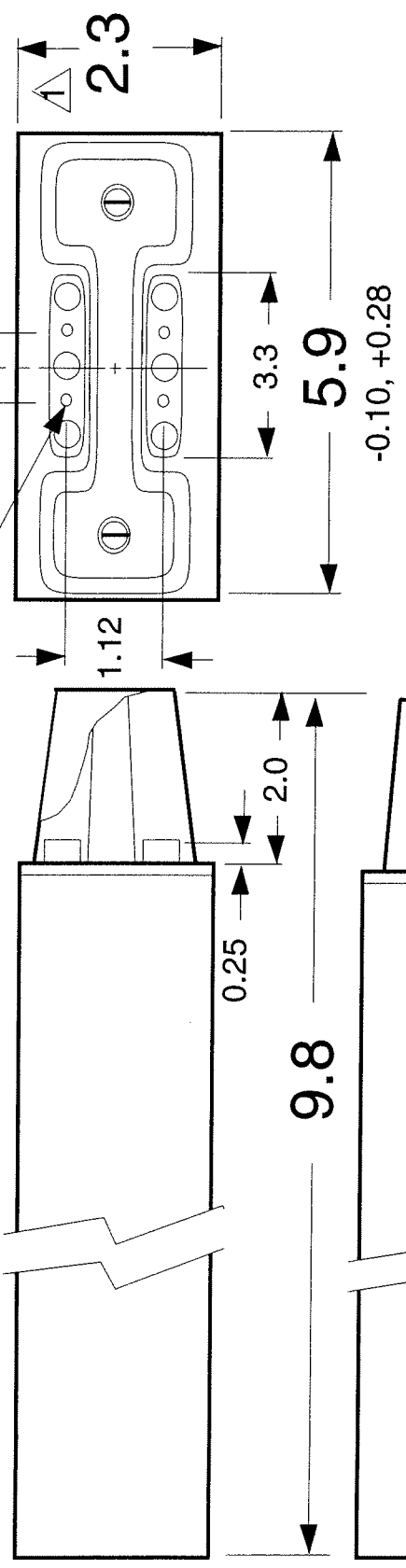
NOTE 2: CO IMPREGNANT (non-PCB)

NOTE 3: LIFE @ 25 KV > 1.0E+07

\*R.T. = room temperature

1	SIZE	FSCM	DRAWING NUMBER	REV LTR
	A	58307	35282	G
			SHEET	2

10-32 UNC x 0.25  
4 PLCS



High Potential  
End  
  
LABEL

$\Delta$  0.3 MAXIMUM  
ALLOWABLE BULGE

<p>DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .X ± .1 .XX ± .03 .XXX ± .010</p>		<p>CONTRACT NUMBER</p>		<p>GENERAL ATOMICS ELECTRONIC SYSTEMS INC Energy Products 4949 GREENCRAIG LANE SAN DIEGO CA. 92123</p>	
PROJECT MANAGER	Robert Cooper	DATE		TITLE	OUTLINE DRAWING
PROJECT ENGINEER	Robert Cooper	PREPARED		PART No.	35282
APPROVED		CHECKED		0.060 uF ± 10 %, 50.0 kV	
CHECKED BY		ENGINEER		FSCM	DRAWING NUMBER
DRAWN BY	Robert Cooper	DESIGN ACTIVITY APPROVAL		58307	35282
NEXT ASSY APPLICATION	USED ON	GOVERNMENT ACTIVITY APPROVAL		SCALE	NONE
				DATE	2/26/96
				REV LTR	G
				PAGE	9 OF 9