



CAPACITOR SPECIFICATION

PART NUMBER: **31507**

PARAMETER	VALUE	UNITS	Q.A.	METHOD
CAPACITANCE:	0.03	µF	100%	120 Hz, R.T.*
TOLERANCE:	+10 , -10	%		
RATED VOLTAGE:	45.0	kV		
TEST VOLTAGE:	50.0	kV	100%	60 sec HIPOT
RATED ENERGY:	30	Joules		
RATED VOLTAGE REVERSAL:	25	%		
MAX. VOLTAGE REVERSAL:	80	%		
MAX. PEAK CURRENT:	25	kA		
MAX. CONTINUOUS REP RATE:	100	ppm		
MAX. RMS CURRENT	30	A		
MAX. OPERATING TEMP.	40	°C		
MIN. OPERATING TEMP.	-10	°C		
DESIGN LIFE AT RATED:	2.0E+08	charge / discharge cycles		
DC LIFE:	>100,000	hours		
RELIABILITY AT LIFE:	90	%		
MAX. DISSIPATION FACTOR	0.20	%	100%	120 Hz, R.T.*
APPROX. INDUCTANCE	50	nH	SAMPLE	STANDING WAVE
MIN. INSULATION RESISTANCE	1000	Mohm-µF	SAMPLE	DECAY Vr / R.T.* / 120s / 120s
CASE STYLE:	DOUBLE ENDED PLASTIC CASE			
BUSHING:	FEMALE ELECTRODE			
ELECTRODE STUD:	.38-16 x .5 UNC			
DIMENSIONS:	4.00 x 6.00 x 8.5	inches		
	102 x 152 x 216	mm		
WEIGHT:	9.7	lbs		
	4.4	kg		

NOTES:

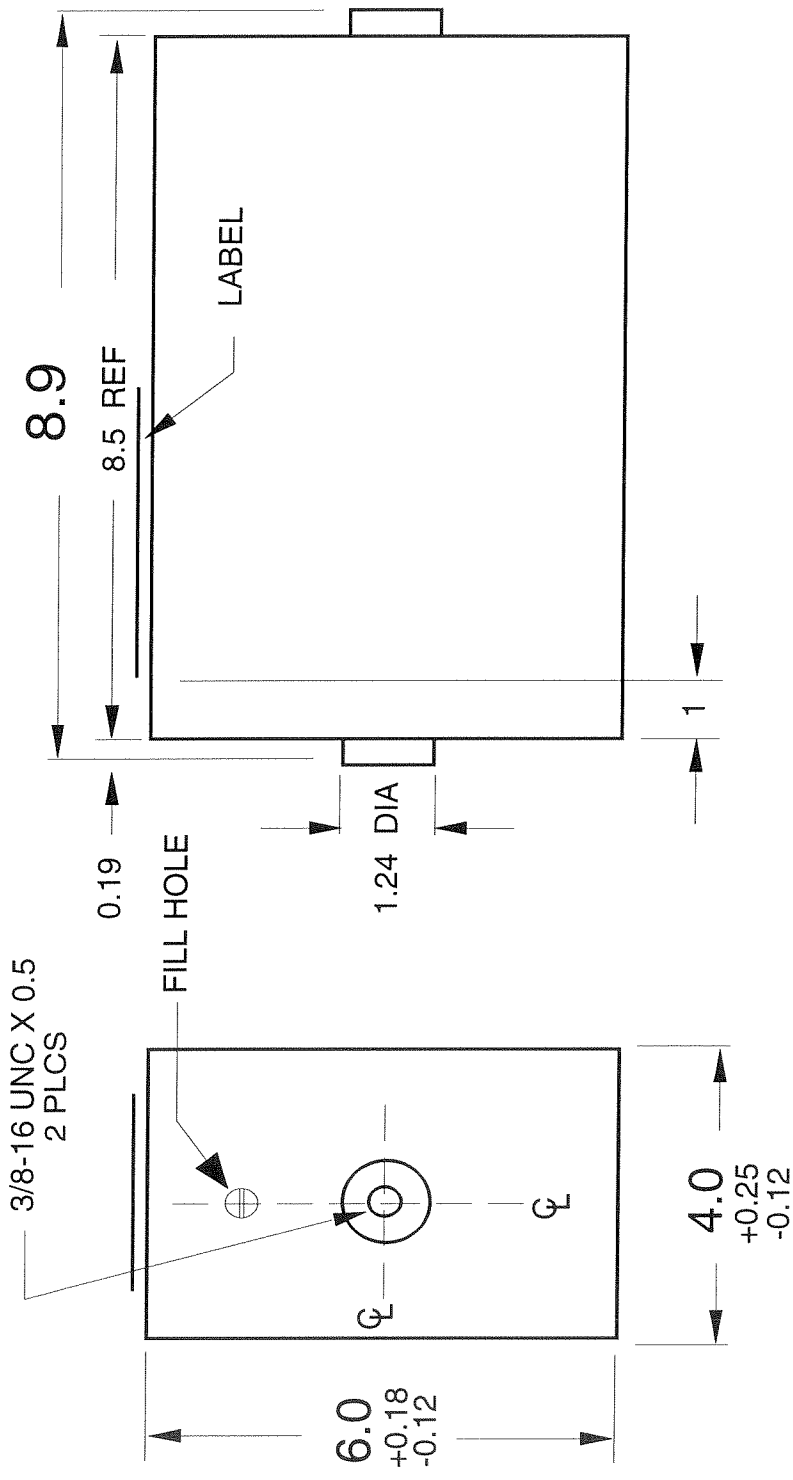
NOTE 1: LEAK TEST: 100 % test and inspection

NOTE 2: CO : IMPREGNANT (non-PCB)

NOTE 3: CONSULT FACTORY FOR DE-RATED OPERATING LIMITS

*R.T. = room temperature

I	SIZE	FSCM	DRAWING NUMBER	REV LTR
	A	58307	31507	L
			SHEET	2



GENERAL ATOMICS Energy Products		ELECTRONIC SYSTEMS INC 4949 GREENCRAIG LANE SAN DIEGO CA. 92123	
TITLE OUTLINE DRAWING		PART No. 31507 0.03 μF ± 10 %, 45.0 kV	
SIZE A	FSCM 58307	DRAWING NUMBER 31507	REV LTR L
SCALE NONE	DATE 2/26/97	PAGE 9 OF 9	
CONTRACT NUMBER		DATE	
PREPARED		CHECKED	
ENGINEER		DESIGN ACTIVITY APPROVAL	
PROJECT MANAGER Robert Cooper		GOVERNMENT ACTIVITY APPROVAL	
PROJECT ENGINEER		APPROVED	
CHECKED BY		CHECKED BY	
DRAWN BY		DRAWN BY	
NEXT ASSY APPLICATION	USED ON	DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .X ± .1 .XX ± .03 .XXX ± .010	