



# CAPACITOR SPECIFICATION

**PART NUMBER: 310DM410**

<u>PARAMETER</u>	<u>VALUE</u>	<u>UNITS</u>	<u>Q.A.</u>	<u>METHOD</u>
CAPACITANCE:	100	uF	100%	120 Hz, 23 °C
TOLERANCE:	± 10	%		
RATED VOLTAGE:	1.0	kV		
TEST VOLTAGE:	1.5	kV	100%	60 sec HIPOT
RATED ENERGY:	50.0	Joules		
RATED VOLTAGE REVERSAL:	20	%		
MAX. VOLTAGE REVERSAL:	80 (FAULT)	%		1 CYCLE
RATED PEAK CURRENT:	1.5	kA		
MAX. PEAK CURRENT (FAULT):	1.75 (FAULT)	kA		1 CYCLE
MAX. RMS CURRENT	23	Amps RMS		
MAX. OPERATING TEMP.	65	°C		
MIN. OPERATING TEMP.	-20	°C		
DESIGN LIFE AT RATED:	3.2E+08	Charge / Discharge cycles		
DC LIFE:	8.9E+04	hours		
RELIABILITY AT LIFE:	90	%		
MAX. DISSIPATION FACTOR	0.30	%	100%	120 Hz, 23 °C
APPROX. INDUCTANCE	200	nH	SAMPLE	STANDING WAVE
MIN. INSULATION RESISTANCE	1000	Mohm-uF	SAMPLE	DECAY Vr / R.T. / 120s / 120s
CASE STYLE:	DRAWN METAL CAN			
BUSHING:	2 ea CERAMIC PILLAR			
ELECTRODE:	1/4-20 UNC-2A			
CASE TERMINAL:	NONE			
DIMENSIONS:	1.96 x 3.66 x 4.75	inches		
	50 x 93 x 121	mm		
APPROXIMATE WEIGHT:	1.1	lbs		
	0.5	kg		

**NOTES:**

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

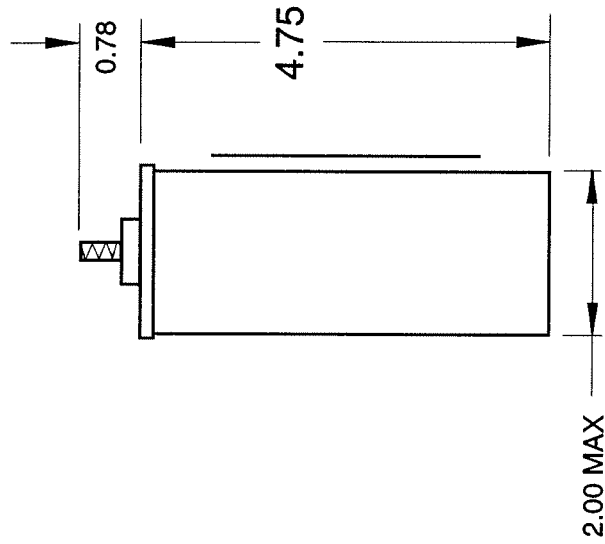
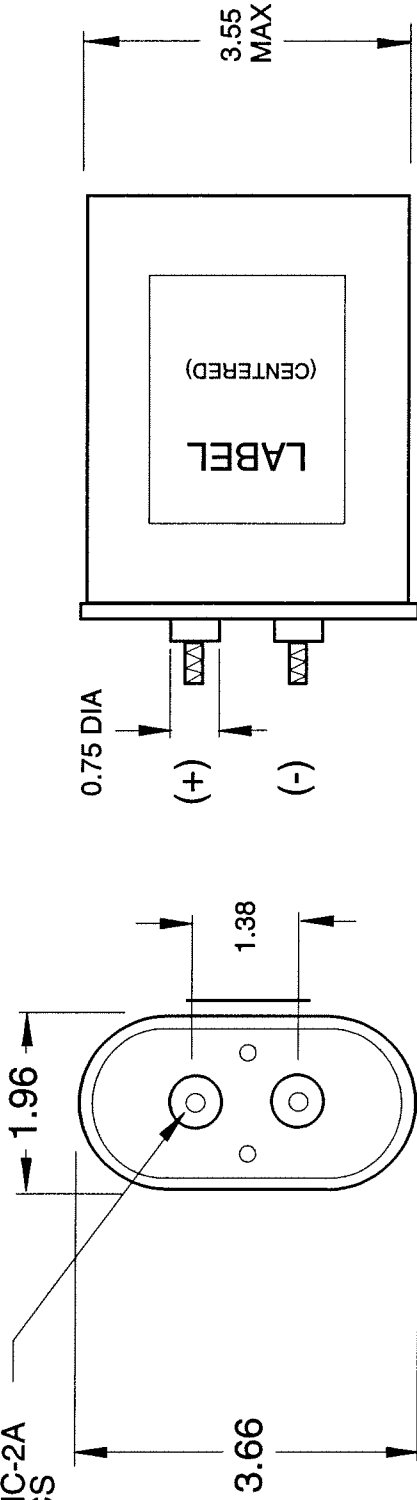
**NOTE 2:** RSO IMPREGNANT (non-PCB)

**NOTE 3:** OPERATES IN ANY ORIENTATION

R.T. = Room temperature, 23 ± 7 °C

	SIZE	FSCM	DRAWING NUMBER	REV LTR
	A	58307	39616	F
	SHEET			2

1/4-20 UNC-2A  
2 PLCS



NOTE: NEGATIVE (-) DENOTES OUTER CONDUCTOR

		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .X ± .1 .XX ± .03 .XXX ± .010		CONTRACT NUMBER	
		PROJECT MANAGER PROJECT ENGINEER APPROVED CHECKED BY DRAWN BY		DATE PREPARED CHECKED ENGINEER DESIGN ACTIVITY APPROVAL GOVERNMENT ACTIVITY APPROVAL	
		J.B. ENNIS			
COMPONENTS		APPROVED			
NEXT ASSY		USED ON			
APPLICATION		DRAWN BY		J.B. ENNIS	
		GENERAL ATOMICS Energy Products		ELECTRONIC SYSTEMS 4949 GREENCRAIG LANE SAN DIEGO CA. 92123	
TITLE		OUTLINE DRAWING			
CAPACITOR, PART No. 310DM410		100.0 uF ± 10 %, 1.0 KV			
SIZE	FSCM	DRAWING NUMBER	REV	LTR	
A	58307	39616		F	
SCALE	NONE	DATE	01/09/2007	PAGE 9 OF 9	