



# GENERAL ATOMICS

Energy Products  
SORRENTO ELECTRONICS

## CAPACITOR SPECIFICATION

MODEL NUMBER: 315 DM 415

<u>PARAMETER</u>	<u>VALUE</u>	<u>UNITS</u>	<u>Q.A.</u>	<u>METHOD</u>
CAPACITANCE:	150	uF	100%	120 Hz, R.T.*
TOLERANCE:	± 10	%		
RATED VOLTAGE:	1.5	kV		
TEST VOLTAGE:	2.5	kV	100%	60 sec HIPOT
RATED ENERGY:	169	Joules		
RATED VOLTAGE REVERSAL:	20	%		
MAX. VOLTAGE REVERSAL:	80 (FAULT)	%		
RATED PEAK CURRENT:	3.5	kA		
MAX. PEAK CURRENT (FAULT):	5.3 (FAULT)	kA		
MAX. RMS CURRENT	39	A		
MAX. OPERATING TEMP.	65	°C		
MIN. OPERATING TEMP.	-20	°C		
DESIGN LIFE AT RATED:	2.0E+08	charge / discharge cycles		
DC LIFE:	5.6E+04	hours		
RELIABILITY AT LIFE:	90	%		
MAX. DISSIPATION FACTOR	0.30	%	100%	120 Hz, R.T.*
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 7.5 kV CERAMIC PILLAR, COMPRESSION SEAL			
ELECTRODE:	2 ea 1/4-20 UNF-2A			
CASE TERMINAL:	NONE			
DIMENSIONS:	3.75 x 4.56 x 6.0	inches		
	95 x 116 x 152	mm		
WEIGHT:	4.1	lbs		
	1.9	kg		

### NOTES:

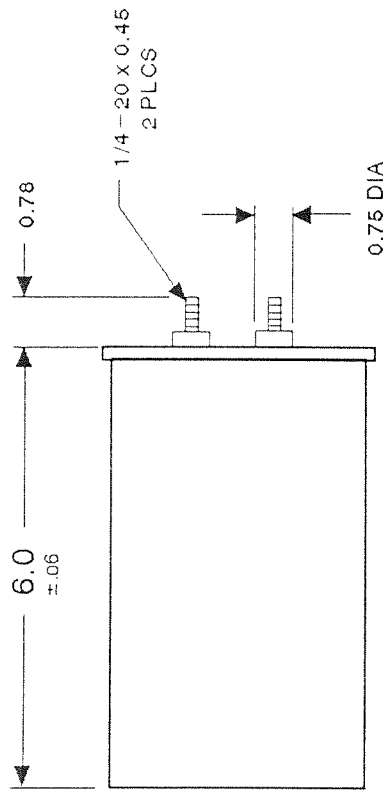
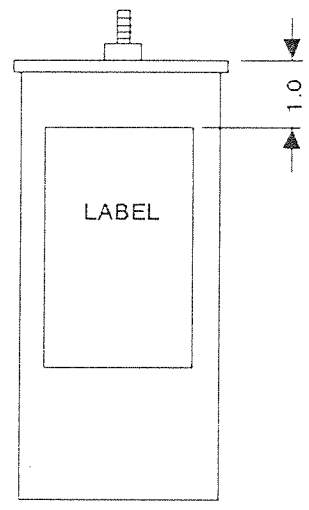
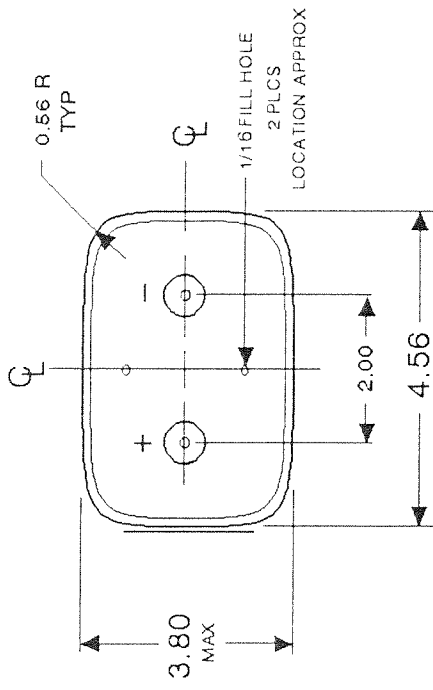
NOTE 1: LEAK TEST: 100 % test and inspection

NOTE 2: IMPREGNANT : RSO (non-PCB)

NOTE 3: OPERATION IN ANY POSITION

\* R.T. = ROOM TEMPERATURE, 23 ± 7°C

	SIZE	FSCM	DRAWING NUMBER	REV LTR
	A	29813	39653	A
			SHEET	2



<b>GENERAL ATOMICS</b> Energy Products		<b>SORRENTO ELECTRONICS</b> 4949 GREENCRAIG LANE SAN DIEGO CA 92123	
TITLE OUTLINE DRAWING		CAPACITOR, MODEL 315 DM 415 150 uF ± 10 %, 1.5 kV	
SIZE <b>A</b>	FSCM <b>29813</b>	DRAWING NUMBER <b>39653</b>	REV LTR <b>A</b>
SCALE <b>NONE</b>	DATE <b>01/19/99</b>	PAGE <b>9</b> OF <b>9</b>	
CONTRACT NUMBER		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES X ± .1 .XX ± .03 .XXX ± .010	
DATE	PREPARED	PROJECT MANAGER <b>J B ENNIS</b>	APPROVED
CHECKED	ENGINEER	CHECKED BY	DRAWN BY <b>J BATES</b>
DESIGN ACTIVITY APPROVAL	GOVERNMENT ACTIVITY APPROVAL	USED ON <b>APPLICATION</b>	NEXT ASSY