



CAPACITOR SPECIFICATION

MODEL NUMBER: **315 DM 550**

| <u>PARAMETER</u> | <u>VALUE</u> | <u>UNITS</u> | <u>Q.A.</u> | <u>METHOD</u> |
|----------------------------|---------------------|---------------------------|-------------|--------------------------------|
| CAPACITANCE: | 50 | uF | 100% | 120 Hz, 23 °C |
| TOLERANCE: | ± 10 | % | | |
| RATED VOLTAGE: | 1.5 | kV | | |
| TEST VOLTAGE: | 2.5 | kV | 100% | 60 sec HIPOT |
| RATED ENERGY: | 56.3 | Joules | | |
| RATED VOLTAGE REVERSAL: | 20 | % | | |
| MAX. VOLTAGE REVERSAL: | 80 (FAULT) | % | | 1 CYCLE |
| RATED PEAK CURRENT: | 1.2 | kA | | |
| MAX. PEAK CURRENT (FAULT): | 1.8 (FAULT) | kA | | 1 CYCLE |
| MAX. RMS CURRENT | 16 | 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 | 100 | nH | SAMPLE | STANDING WAVE |
| MIN. INSULATION RESISTANCE | 1000 | Mohm-uF | SAMPLE | DECAY Vr / 23 °C / 120s / 120s |
| CASE STYLE: | DRAWN METAL CAN | | | |
| BUSHING: | 2 ea CERAMIC PILLAR | | | |
| ELECTRODE: | 1/4-20 UNC-2A | | | |
| 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

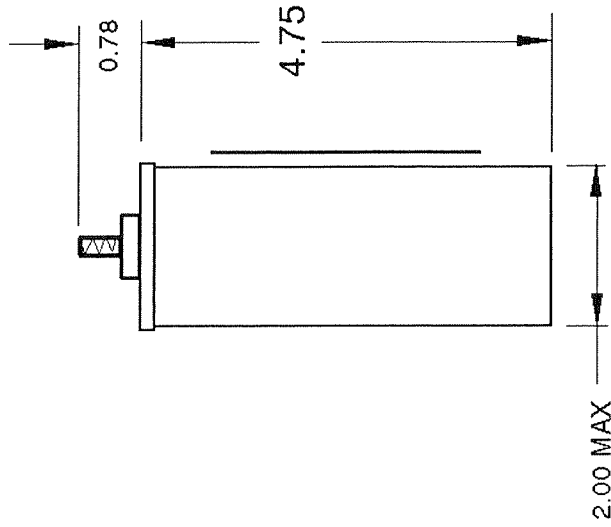
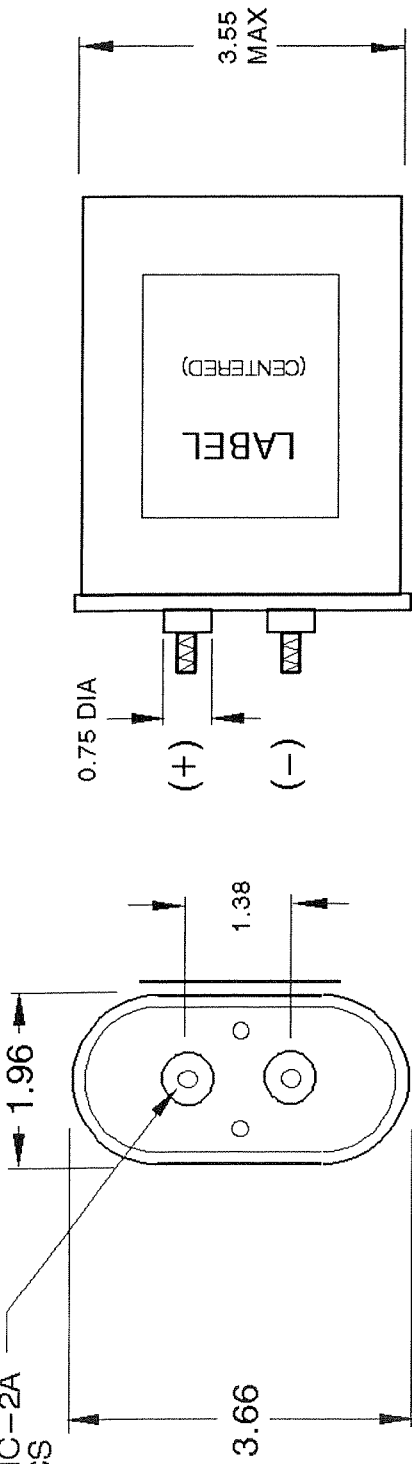
NOTE 2: RSO IMPREGNANT (non-PCB)

NOTE 3: OPERATES IN ANY ORIENTATION

NOTE 4: SELF-HEALING, METALLIZED ELECTRODE

| | | | |
|-------|-------|----------------|---------|
| SIZE | FSCM | DRAWING NUMBER | REV LTR |
| A | 58307 | 39617 | J |
| SHEET | | | 2 |

1/4 - 20 UNC - 2A
2 PLCS



NOTE: NEGATIVE (-) DENOTES OUTER CONDUCTOR

| | | | | | |
|---|--|-------------------------------------|--|--|--|
| <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 Energy Products 4949 GREENCRAIG LANE SAN DIEGO CA. 92123</p> | |
| <p>PROJECT MANAGER</p> | | <p>DATE</p> | | <p>TITLE OUTLINE DRAWING</p> | |
| <p>PROJECT ENGINEER</p> | | <p>PREPARED</p> | | <p>CAPACITOR, MODEL 315 DM 550</p> | |
| <p>APPROVED</p> | | <p>CHECKED</p> | | <p>50.0 uF ± 10 % , 1.5 kV</p> | |
| <p>CHECKED BY</p> | | <p>ENGINEER</p> | | <p>SIZE A</p> | |
| <p>DRAWN BY</p> | | <p>DESIGN ACTIVITY APPROVAL</p> | | <p>FSCM 58307</p> | |
| <p>APPLICATION</p> | | <p>GOVERNMENT ACTIVITY APPROVAL</p> | | <p>DRAWING NUMBER 39617</p> | |
| <p>NEXT ASSY</p> | | <p>USED ON</p> | | <p>REV LTR J</p> | |
| <p>J Bates</p> | | <p>J Bates</p> | | <p>SCALE NONE</p> | |
| <p>DATE</p> | | <p>DATE</p> | | <p>DATE 06/01/99</p> | |
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