



GENERAL ATOMICS

Energy Products

SORRENTO ELECTRONICS

CAPACITORS AND POWER SUPPLIES

CAPACITOR SPECIFICATION

MODEL NUMBER: **450PD870**

<u>PARAMETER</u>	<u>VALUE</u>	<u>UNITS</u>	<u>Q.A.</u>	<u>METHOD</u>
CAPACITANCE:	0.070	µF	100%	120 Hz, R.T.*
TOLERANCE:	+10 , -10	%		
RATED VOLTAGE:	50	kV		
TEST VOLTAGE:	100	kV	100%	60 sec HIPOT
RATED ENERGY:	88	Joules		
RATED VOLTAGE REVERSAL:	20	%		
MAX. VOLTAGE REVERSAL:	80 (FAULT)	%		
RATED PEAK CURRENT:	25	kA		
MAX. PEAK CURRENT:	50 (FAULT)	kA		
MAX. RMS CURRENT	40	Amps RMS		
MAX. OPERATING TEMP.	65	°C		
MIN. OPERATING TEMP.	-30	°C		
DESIGN LIFE AT RATED:	2.3E+09	charge / discharge cycles		
DC LIFE: >	1.0E+05	hours		
RELIABILITY AT LIFE:	90	%		
MAX. DISSIPATION FACTOR	0.15	%	100%	120 Hz, R.T.*
APPROX. INDUCTANCE	75	nH	SAMPLE	STANDING WAVE
MIN. INSULATION RESISTANCE	1000	Mohm-µF	SAMPLE	DECAY Vr / R.T.* / 120s / 120s
CASE STYLE:	DOUBLE ENDED PLASTIC			
BUSHING:	2 ea 1.24" DIA TERMINAL			
ELECTRODE STUD:	.38-16 unc x 0.5 deep Thd			
DIMENSIONS:	4.0 x 6.0 x 16.7	inches		
	102 x 152 x 424	mm		
APPROX. WEIGHT:	18.5	lbs		
	8.4	kg		

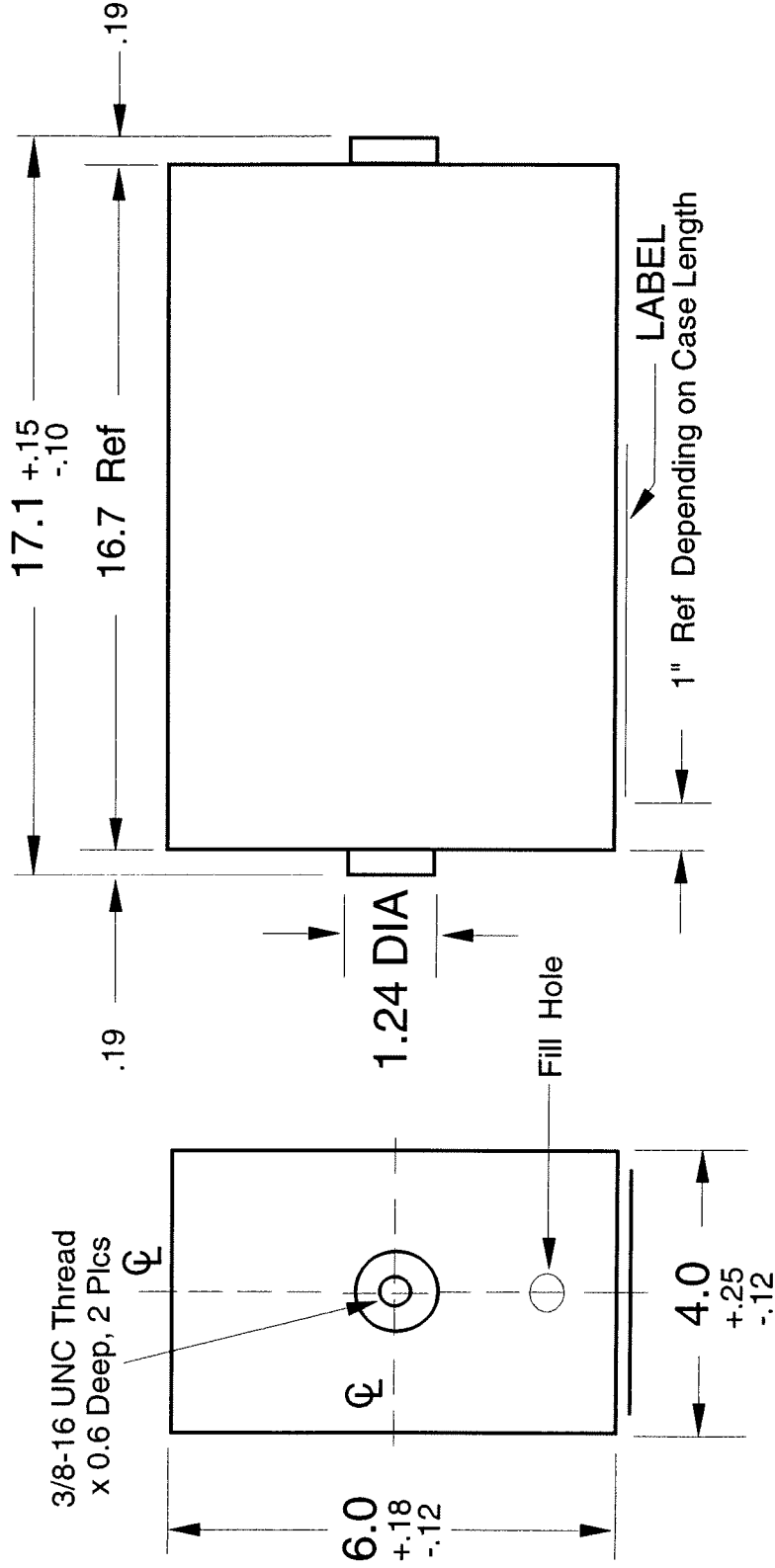
NOTES:


NOTE 1: LEAK TEST: 100 % test and inspection

NOTE 2: IPBP IMPREGNANT (non-PCB)

*R.T. = room temperature

	SIZE	FSCM	DRAWING NUMBER	REV LTR
	A	58307	35852	B
	SHEET			2



 GENERAL ATOMICS Energy Products		SORRENTO ELECTRONICS 4949 GREENCRAIG LANE SAN DIEGO CA. 92123	
CONTRACT NUMBER		TITLE OUTLINE DRAWING	
DATE		MODEL No. 450PD870 0.070 uF ± 10 %, 50.0 kV	
PREPARED	CHECKED	SIZE A	FSCM 58307
ENGINEER	DESIGN ACTIVITY APPROVAL	DRAWING NUMBER 35852	REV LTR B
GOVERNMENT ACTIVITY APPROVAL	SCALE NONE	DATE 03/01/01	PAGE 9
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .X ± .1 .XX ± .03 .XXX ± .010		PROJECT MANAGER Robert Cooper	
PROJECT ENGINEER Robert Cooper		APPROVED CHECKED BY Robert Cooper	
NEXT ASSY APPLICATION	USED ON	DRAWN BY Robert Cooper	