



CAPACITOR SPECIFICATION

MODEL NUMBER: **462PD710MVT**

<u>PARAMETER</u>	<u>VALUE</u>	<u>UNITS</u>	<u>Q.A.</u>	<u>METHOD</u>
CAPACITANCE:	0.102	µF	100%	120 Hz, R.T.*
TOLERANCE:	+5.0, -0	%		
RATED VOLTAGE:	62	kV		
TEST VOLTAGE:	93	kV	100%	60 sec HIPOT
OPERATING VOLTAGE:	52	kV		
RATED ENERGY:	196	Joules		
RATED VOLTAGE REVERSAL:	20	%		
MAX. VOLTAGE REVERSAL:	80 (FAULT)	%		
MAX. PEAK CURRENT:	50	kA		
MAX. RMS CURRENT	35	Amps RMS Continuous Working		
MAX. OPERATING TEMP.	65	°C		
MIN. OPERATING TEMP.	-20	°C		
DESIGN LIFE AT RATED:	4.80E+08	charge / discharge cycles		
DC LIFE: >	1.50E+05	hours		
RELIABILITY AT LIFE:	90	%		
MAX. DISSIPATION FACTOR	0.20	%	100%	120 Hz, R.T.*
APPROX. INDUCTANCE	70	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 1.25" DIA TERMINAL			
ELECTRODE STUD:	M10 x 1.5 - 12mm deep Thd			
DIMENSIONS:	4.0 x 6.0 x ~23.0	inches		
	102 x 152 x ~584	mm		
APPROX. WEIGHT:	25.5	lbs		
	11.6	kg		

NOTES:

NOTE 1: LEAK TEST: 100 % test and inspection

NOTE 2: IPB or BTDP IMPREGNANT (non-PCB)

NOTE 3: DESIGN LIFE @ 52kV Operating Voltage = 1.7 x 10⁹th

*R.T. = room temperature

	SIZE	FSCM	DRAWING NUMBER	REV LTR
	A	58307	35863	A
	SHEET			2F

462PD710VT =
462PD710MVT =

3/8-16 UNC Thread x 0.6 Deep
 M10 x 1.5 - 12mm deep Thd
 2 Pics

23.4 ^{+0.15}
_{-0.10}
 ~23.0 Ref

.19

.19

Φ

6.0 ^{+0.18}
_{-0.12}

Φ

1.25 DIA

Fill Hole

4.0 ^{+0.25}
_{-0.12}

1" Ref Depending on Case Length

LABEL

GENERAL ATOMICS ELECTRONIC SYSTEMS INC Energy Products 4949 GREENCRAIG LANE SAN DIEGO CA. 92123		CONTRACT NUMBER DATE PREPARED CHECKED ENGINEER DESIGN ACTIVITY APPROVAL GOVERNMENT ACTIVITY APPROVAL	
TITLE OUTLINE DRAWING MODEL No. 462PD710VT or MVT 0.102 uF +5, - 0 %, 62 kV		PROJECT MANAGER PROJECT ENGINEER APPROVED CHECKED DRAWN BY	
SIZE A	FSCM 58307	DRAWING NUMBER 35863	REV LTR A
SCALE NONE	DATE 012/29/03	PAGE 9C	APPLICATION USED ON