

CAPACITOR SPECIFICATION

PART NUMBER: **31981**

<u>PARAMETER</u>	<u>VALUE</u>	<u>UNITS</u>	<u>Q.A.</u>	<u>METHOD</u>
CAPACITANCE:	0.10	μF	100%	120 Hz, R.T.*
TOLERANCE:	± 10	%		
RATED VOLTAGE:	40	kV		
TEST VOLTAGE:	44	kV	100%	60 sec HIPOT
RATED ENERGY:	80	Joules		
RATED VOLTAGE REVERSAL:	20	%		
MAX. VOLTAGE REVERSAL:	80 (FAULT)	%		
MAX. PEAK CURRENT:	25 (FAULT)	kA		
MAX. CONTINUOUS REP RATE:	100	pps		
MAX. RMS CURRENT	25	Amps		
MAX. OPERATING TEMP.	40	°C		
MIN. OPERATING TEMP.	-10	°C		
DESIGN LIFE AT RATED:	1.0E+08	charge / discharge cycles		
DC LIFE:	1.0E+05	hours		
RELIABILITY AT LIFE:	90	%		
MAX. DISSIPATION FACTOR	0.3	%	100%	120 Hz, R.T.*
APPROX. INDUCTANCE	60	nH	SAMPLE	STANDING WAVE
MIN. INSULATION RESISTANCE	1000	Mohm-μF	SAMPLE	DECAY Vr / R.T.* / 120s / 120s
CASE STYLE:	DOUBLE ENDED PLASTIC CASE			
BUSHING:	FEMALE ELECTRODE			
ELECTRODE STUD:	3/8-16 x 0.5 UNC			
CASE DIMENSIONS:	4.0 x 6.0 x 10.5	inches		
	102 x 152 x 267	mm		
APPROX. WEIGHT:	12.3	lbs		
	5.6	kg		

NOTES:

NOTE 1: LEAK TEST: 100 % test and inspection

NOTE 2: CO IMPREGNANT (non-PCB)

* R.T. = Room temperature (23 ± 7 °C)

	SIZE	FSCM	DRAWING NUMBER	REV
	A	58307	31981	E
	SHEET 2			



GENERAL ATOMICS
ELECTRONIC SYSTEMS INC.
 4949 GREENCRAIG LANE SAN DIEGO, CA 92123

TITLE CAPACITOR PART No. 31981
0.1 uF ± 10%, 40 kV

SIZE	FSCM	DRAWING NUMBER	REV LTR
A	58307	31981	E
SCALE - NONE		DATE: 6/6/05	SHEET 9 of 9

CONTRACT NO.		APPROVALS	DATE
DRAWN			
CHECKED		JEG	
ENGR			
DESIGN ACTIVITY			
GOVERNMENT ACTIVITY			

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 DECIMALS
 .X ± .1
 .XX ± .03
 .XXX ± .010
 DO NOT SCALE DRAWING

TREATMENT

FINISH

SIMILAR TO SPECIAL MARKING SYS

APPLICATION	USED ON