

## CAPACITOR SPECIFICATION

PART NUMBER: **30549**

<u>PARAMETER</u>	<u>VALUE</u>	<u>UNITS</u>	<u>Q.A.</u>	<u>METHOD</u>
CAPACITANCE:	50.0	μF	100%	120 Hz, R.T.*
TOLERANCE:	±10	%		
RATED VOLTAGE:	3.5	kV		
TEST VOLTAGE:	3.9	kV	100%	60 sec HIPOT
RATED ENERGY:	306	Joules		
RATED VOLTAGE REVERSAL:	20	%		
MAX. VOLTAGE REVERSAL:	80	FAULT %		
RATED PEAK CURRENT:	25	kA		
MAX. PEAK CURRENT:	50	FAULT kA		
MAX. RMS CURRENT	25	A		
MAX. OPERATING TEMP.	65	°C		
MIN. OPERATING TEMP.	-30	°C		
DESIGN LIFE:	1.0E+06	charge / discharge cycles		
DC LIFE:	4.0E+04	hours		
RELIABILITY AT LIFE:	90	%		
MAX. DISSIPATION FACTOR	0.40	%	100%	120 Hz, R.T.*
APPROX. INDUCTANCE	110	nH	SAMPLE	STANDING WAVE
MIN. INSULATION RESISTANCE	1000	Mohm-μF	SAMPLE	DECAY Vr / R.T.* / 120s / 120s
CASE STYLE:	DRAWN METAL CAN			
BUSHING:	2 ea CERAMIC PILLAR			
ELECTRODE:	2 ea 10-32 x .45 UNF-2A			
CASE TERMINAL:	NONE			
CASE DIMENSIONS:	3.75 x 4.56 x 7.3	inches		
	95 x 116 x 184	mm		
WEIGHT:	6.0	lbs		
	2.7	kg		

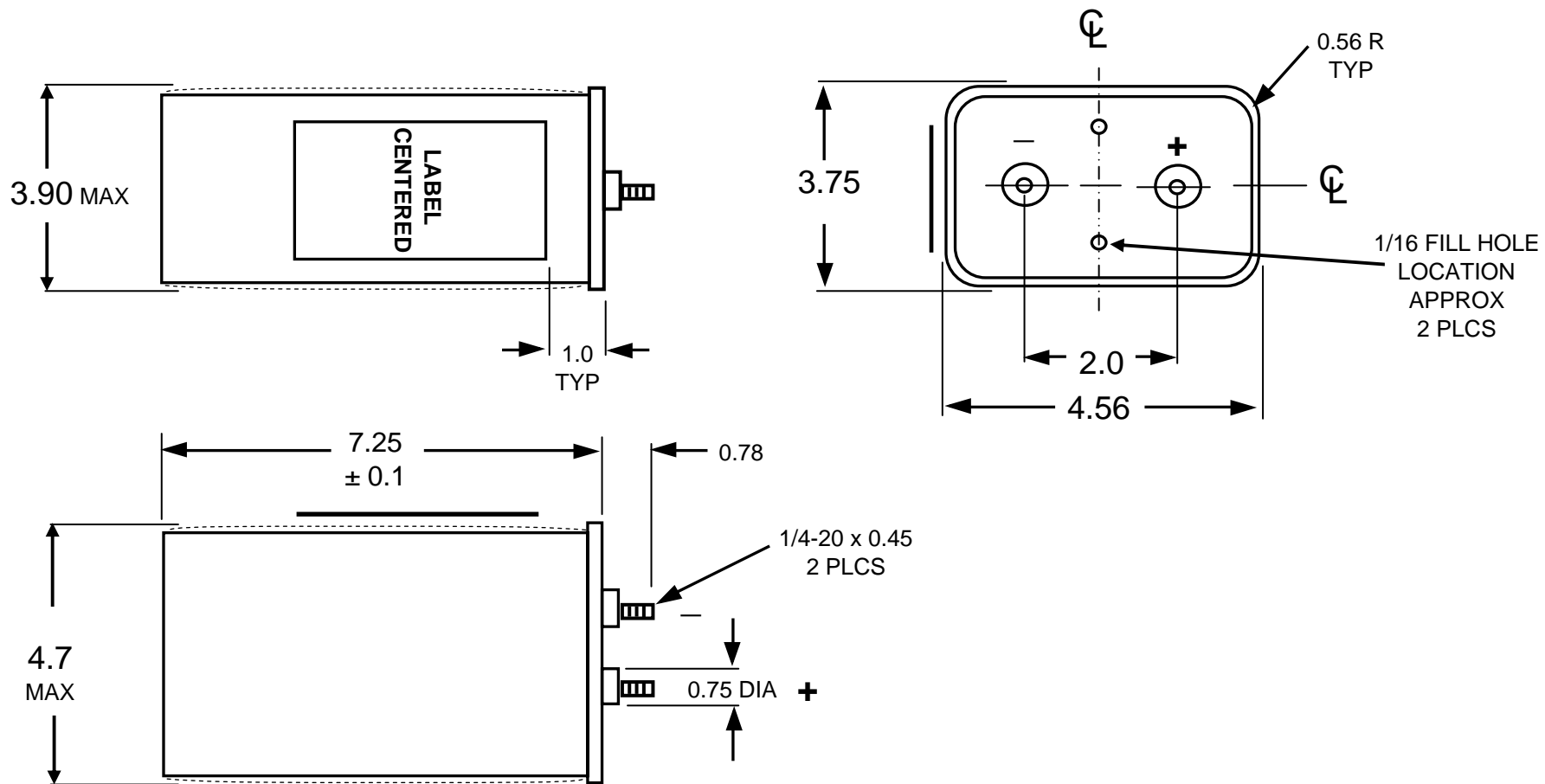
**NOTES:**


**NOTE 1:** LEAK TEST: 100 % test and inspection

**NOTE 2:** BTDP IMPREGNANT (non-PCB)

\* R.T. = Room temperature (23 ± 7 °C)

	SIZE	FSCM	DRAWING NUMBER	REV
	<b>A</b>	<b>58307</b>	<b>30549</b>	<b>AB</b>
	<b>SHEET 2</b>			



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS                      ANGLES .X ± .1                              ± 2° .XX ± .03 .XXX ± .010 DO NOT SCALE DRAWING	CONTRACT NO.		 4949 GREENCRAIG LANE    SAN DIEGO, CA 92123				
			APPROVALS	DATE			TITLE <b>CAPACITOR PART No. 30549</b> <b>50 uF ±10%, 3.5 kV</b>		
		TREATMENT	DRAWN			SIZE	FSCM	DRAWING NUMBER	REV LTR
		FINISH	ENGR	J. Ennis		<b>A</b>	<b>58307</b>	<b>30549</b>	<b>AB</b>
NEXT ASSY	USED ON	SIMILAR TO	SPECIAL MARKING SYS			SCALE - NONE		DATE: 01/23/08	SHEET 9 of 9
APPLICATION				GOVERNMENT ACTIVITY					