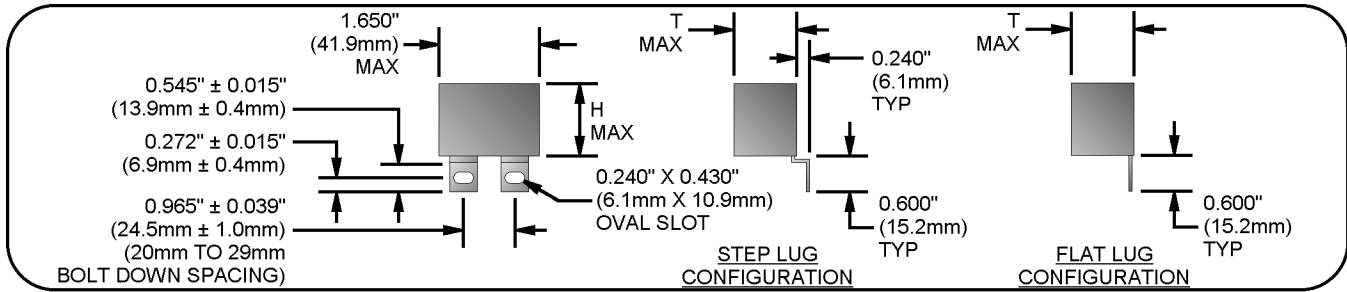


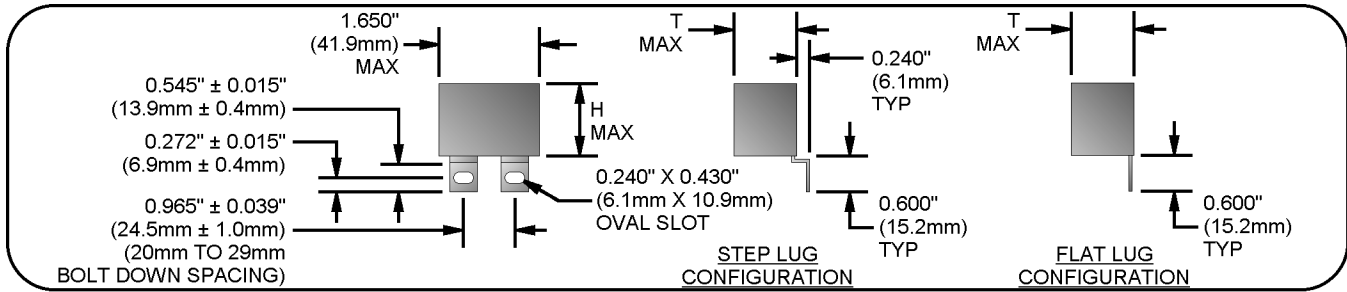
600VDC/250VAC/800V <sub>PEAK</sub> *				
CAP (MFD)	T MAX	H MAX	I <sub>peak</sub> (A)	ESR (mΩ)
0.33	0.550" (14.0mm)	1.050" (26.7mm)	7.3	15.1
0.39	0.550" (14.0mm)	1.050" (26.7mm)	8.6	13.3
0.47	0.550" (14.0mm)	1.050" (26.7mm)	10.4	11.5
0.56	0.600" (15.2mm)	1.050" (26.7mm)	12.3	10.1
0.68	0.650" (16.5mm)	1.050" (26.7mm)	15.0	8.9
0.82	0.750" (19.1mm)	1.050" (26.7mm)	18.1	7.9
1.00	0.750" (19.1mm)	1.400" (35.6mm)	22.0	6.4
1.20	0.800" (20.3mm)	1.400" (35.6mm)	26.5	6.0
1.50	0.850" (21.6mm)	1.400" (35.6mm)	33.1	5.6
1.75	0.850" (21.6mm)	1.400" (35.6mm)	23.4	5.4
2.00	0.850" (21.6mm)	1.400" (35.6mm)	26.7	5.2
2.20	0.850" (21.6mm)	1.400" (35.6mm)	29.4	5.1
2.50	0.850" (21.6mm)	1.400" (35.6mm)	33.4	5.0
3.00	0.900" (22.9mm)	1.400" (35.6mm)	40.1	4.8
4.00	1.000" (25.4mm)	1.400" (35.6mm)	53.5	4.6
5.00	1.100" (27.9mm)	1.800" (45.7mm)	66.9	4.5
6.00	1.200" (30.5mm)	1.800" (45.7mm)	80.2	4.4
7.00	1.250" (31.8mm)	1.800" (45.7mm)	93.6	4.3
8.00	1.250" (31.8mm)	2.200" (55.9mm)	107.0	4.3
10.0	1.500" (38.1mm)	2.200" (55.9mm)	114.0	4.2

\* SEE "RATED VOLTAGE" SECTION ON PAGE 5 FOR DETAILS AND CONDITIONS REGARDING VOLTAGE RATINGS AT TOP OF TABLE.



1200VDC/500VAC/1600V <sup>PEAK</sup> *				
CAP (MFD)	T MAX	H MAX	I <sub>peak</sub> (A)	ESR (mΩ)
0.22	0.550" (14.0mm)	1.050" (26.7mm)	13.2	17.4
0.27	0.600" (15.2mm)	1.050" (26.7mm)	16.2	14.5
0.33	0.650" (16.5mm)	1.050" (26.7mm)	19.9	12.1
0.39	0.700" (17.8mm)	1.050" (26.7mm)	23.5	10.5
0.47	0.750" (19.1mm)	1.050" (26.7mm)	28.3	8.9
0.56	0.800" (20.3mm)	1.400" (35.6mm)	33.7	7.8
0.68	0.850" (21.6mm)	1.400" (35.6mm)	40.9	6.6
0.82	0.950" (24.1mm)	1.400" (35.6mm)	49.3	5.8
1.00	1.100" (27.9mm)	1.400" (35.6mm)	60.2	4.4
1.20	1.100" (27.9mm)	1.800" (45.7mm)	72.2	4.0
1.50	1.200" (30.5mm)	1.800" (45.7mm)	90.3	3.6
1.75	1.400" (35.6mm)	1.800" (45.7mm)	105.0	3.4
2.00	1.400" (35.6mm)	2.200" (55.9mm)	120.0	3.2
2.20	1.500" (38.1mm)	2.200" (55.9mm)	132.0	3.1
2.50	1.600" (40.6mm)	2.200" (55.9mm)	151.0	3.0
3.00	1.850" (47.0mm)	2.200" (55.9mm)	181.0	2.8

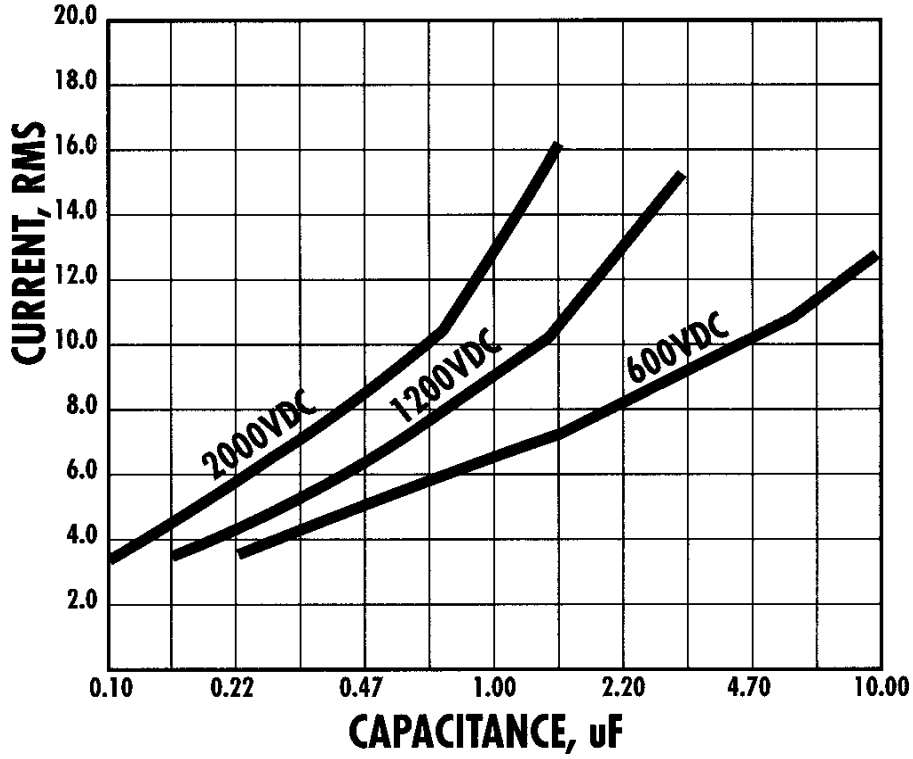
\* SEE "RATED VOLTAGE" SECTION ON PAGE 5 FOR DETAILS AND CONDITIONS REGARDING VOLTAGE RATINGS AT TOP OF TABLE.



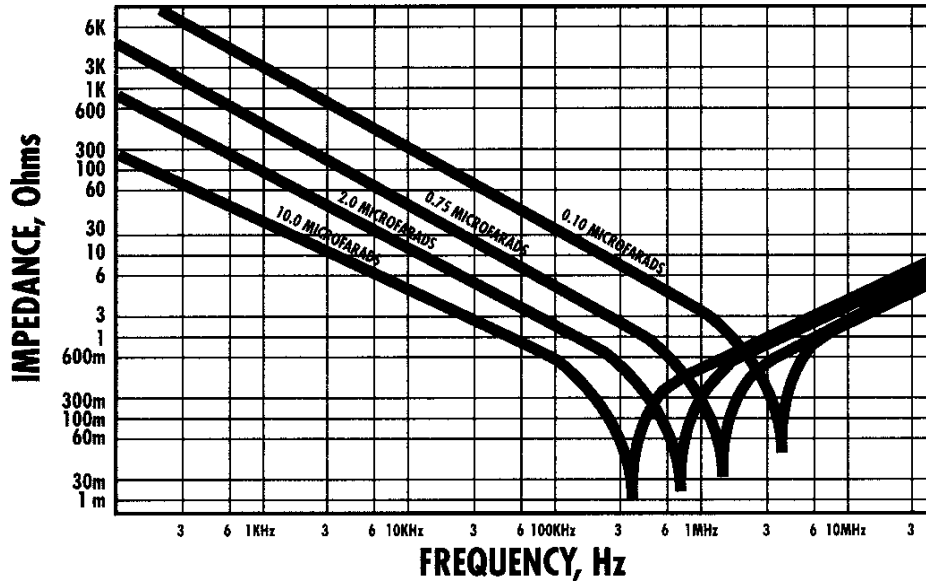
2000VDC/600VAC/2600V <sup>PEAK</sup> *				
CAP (MFD)	T MAX	H MAX	I <sub>peak</sub> (A)	ESR (mΩ)
0.10	0.550" (14.0mm)	1.050" (26.7mm)	9.0	10.5
0.12	0.600" (15.2mm)	1.050" (26.7mm)	10.8	25.9
0.15	0.650" (16.5mm)	1.050" (26.7mm)	13.5	21.7
0.18	0.700" (17.8mm)	1.050" (26.7mm)	16.2	17.6
0.22	0.800" (20.3mm)	1.050" (26.7mm)	19.9	14.8
0.27	0.750" (19.1mm)	1.400" (35.6mm)	24.4	12.3
0.33	0.850" (21.6mm)	1.400" (35.6mm)	29.8	10.2
0.39	0.950" (24.1mm)	1.400" (35.6mm)	35.2	8.5
0.47	1.100" (27.9mm)	1.400" (35.6mm)	42.4	7.3
0.56	1.150" (29.2mm)	1.800" (45.7mm)	50.6	6.2
0.68	1.250" (31.8mm)	1.800" (45.7mm)	61.4	5.4
0.82	1.450" (36.8mm)	1.800" (45.7mm)	74.0	4.6
1.00	1.500" (38.1mm)	2.200" (55.9mm)	90.3	3.6
1.20	1.650" (41.9mm)	2.200" (55.9mm)	108.0	3.2
1.50	1.950" (49.5mm)	2.200" (55.9mm)	135.0	2.8

\* SEE "RATED VOLTAGE" SECTION ON PAGE 5 FOR DETAILS AND CONDITIONS REGARDING VOLTAGE RATINGS AT TOP OF TABLE.

**X329  
RMS CURRENT**



**IMPEDANCE**



## GENERAL SPECIFICATIONS

### PHYSICAL CHARACTERISTICS

**CONSTRUCTION:** NON-INDUCTIVE WOUND METALLIZED POLYPROPYLENE.

**CASE:** FLAME RETARDANT TAPE WRAP CASE AND EPOXY FILL.

**LEAD MATERIAL:** 0.025" (0.6mm) THICK SOLDER COATED OR TINNED BRASS IGBT MOUNT STYLE LUGS AVAILABLE IN EITHER "STEP" (S) OR "FLAT" (F) CONFIGURATIONS.

**DIMENSIONS:** AS SPECIFIED IN TABLES.

### ELECTRICAL CHARACTERISTICS

**CAPACITANCE:** AS SPECIFIED IN TABLES  $\pm$  REQUESTED TOLERANCE WHEN MEASURED AT OR REFERRED TO 1000  $\pm$  20 Hz AND 25  $\pm$  5 °C.

**TOLERANCE:**  $\pm$ 1%,  $\pm$ 2%,  $\pm$ 5%,  $\pm$ 10%, AND  $\pm$ 20% AVAILABLE. OTHER TOLERANCES AVAILABLE UPON REQUEST.

**DISSIPATION FACTOR:** SHALL NOT BE GREATER THAN 0.1% WHEN MEASURED AT OR REFERRED TO 1000  $\pm$  20 Hz AND 25  $\pm$  5 °C.

**INSULATION RESISTANCE:** SHALL BE GREATER THAN 100,000 M $\Omega$  x  $\mu$ F WHEN MEASURED AFTER 2 MINUTES ELECTRIFICATION AT 100VDC AND 25  $\pm$  5 °C.

**DIELECTRIC STRENGTH:** 150% RATED VOLTAGE FOR 1 MINUTE THROUGH A LIMITING RESISTANCE OF 100 OHMS/VOLT AT 25  $\pm$  5 °C.

**RATED VOLTAGE:** 600VDC/250VAC/800V<sub>PEAK</sub>, 1200VDC/500VAC/1600V<sub>PEAK</sub>, AND 2000VDC/600VAC/2600V<sub>PEAK</sub> AVAILABLE. AC VOLTAGE RATINGS ARE FOR 60 Hz OPERATION - VOLTAGE MUST BE DERATED FOR HIGHER FREQUENCIES BASED ON A CONSTANT VOLT-AMPERE. PEAK VOLTAGE RATINGS ARE VALID FOR NON-RECURRING SURGE VOLTAGES ONLY - RECURRING SURGE VOLTAGE RATING IS SAME AS DC RATED VOLTAGE.

**TEMPERATURE:** -55 °C TO +105 °C AT FULL RATED CURRENT AND VOLTAGE.

**RATED CURRENT:** PEAK CURRENT RATINGS AS SPECIFIED IN TABLES. RMS CURRENT RATINGS AS SPECIFIED IN CHART.

**ESR (EQUIVALENT SERIES RESISTANCE):** TYPICAL ESR AS SPECIFIED IN TABLES. MAXIMUM ESR LIMIT IS 2 X TYPICAL ESR VALUE.

**ESL (EQUIVALENT SERIES INDUCTANCE):** TYPICAL ESL MEASURES FROM 20nH TO 26 nH.

### ADDITIONAL INFORMATION

**ORDERING INFORMATION:** ALL ASC CAPACITORS ARE ORDERED BY "FAMILY CAP-TOL-VOLT" DESIGNATION. ADD "S" OR "F" SUFFIX TO FAMILY TO INDICATE "STEP" OR "FLAT" TERMINALS RESPECTIVELY. (I.E. TO ORDER AN X329, STEP TERMINAL, 1.0 $\mu$ F,  $\pm$ 10%, 600VDC CAPACITOR, REQUEST PART NUMBER "X329S 1-10-600")

**SEE ALSO:** "GENERAL INFORMATION - POLYPROPYLENE CAPACITORS" DOCUMENT FOR ADDITIONAL PHYSICAL, ELECTRICAL, AND PERFORMANCE CHARACTERISTICS NOT MENTIONED IN THIS FILE.

**WARNING:** INFORMATION ON THIS FILE IS SUBJECT TO CHANGE WITHOUT NOTICE AT ASC'S DISCRETION.

LAST MODIFIED: 08/09/01