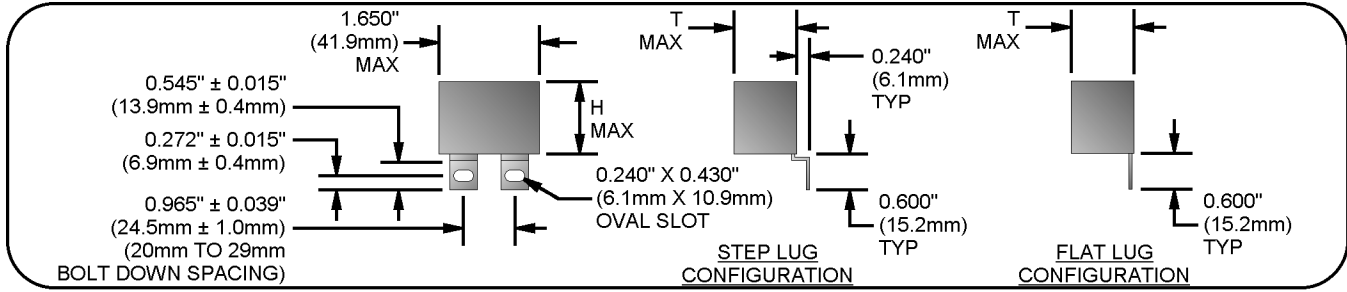


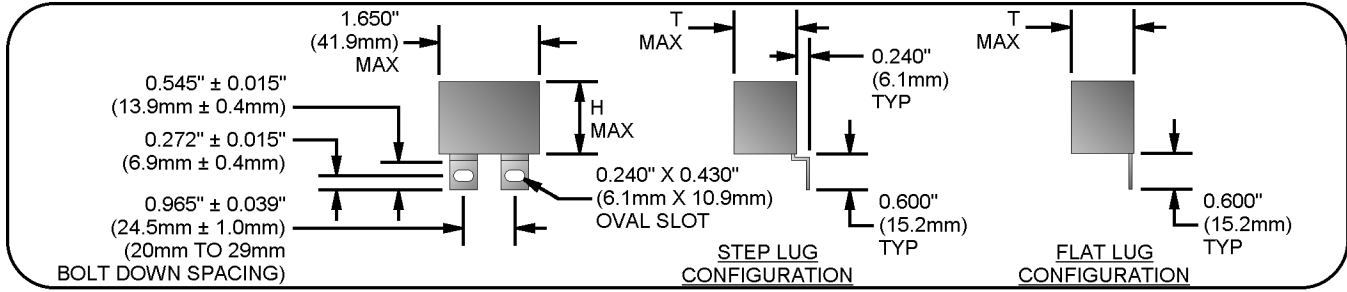
| 600VDC/250VAC/800V ^{PEAK*} | | | | |
|-------------------------------------|-----------------|-----------------|-----------------------|----------|
| CAP (MFD) | T MAX | H MAX | I _{peak} (A) | ESR (mΩ) |
| 0.33 | 0.550" (14.0mm) | 1.050" (26.7mm) | 7.3 | 15.1 |
| 0.39 | 0.550" (14.0mm) | 1.050" (26.7mm) | 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 _{PEAK} * | | | | |
|--|-----------------|-----------------|-----------------------|----------|
| CAP (MFD) | T MAX | H MAX | I _{peak} (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 |

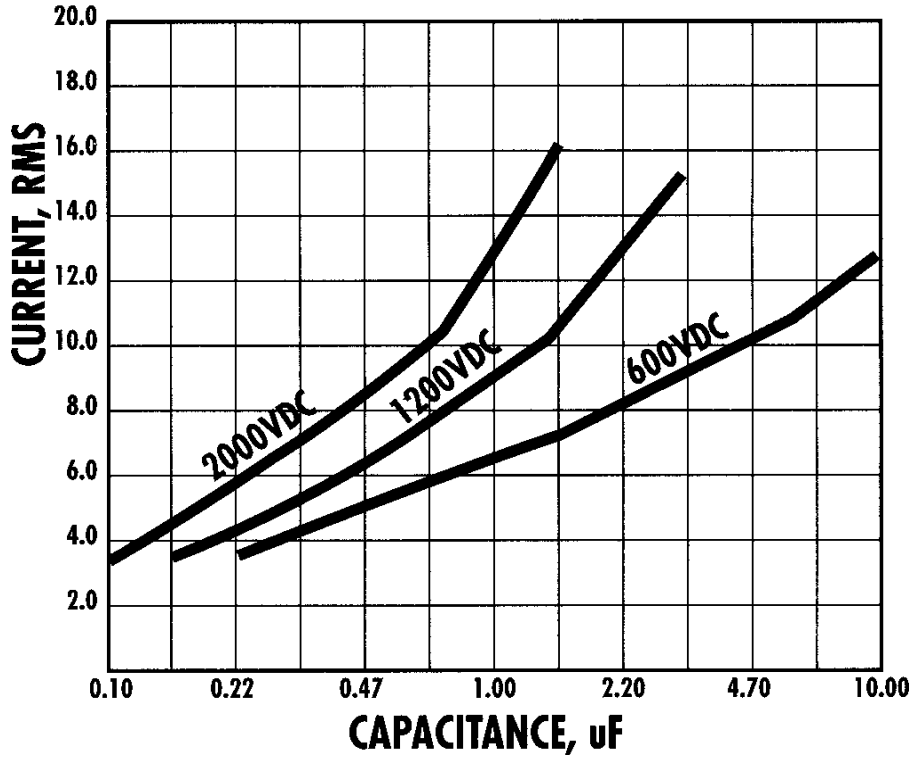
* SEE "RATED VOLTAGE" SECTION ON PAGE 5 FOR DETAILS AND CONDITIONS REGARDING VOLTAGE RATINGS AT TOP OF TABLE.



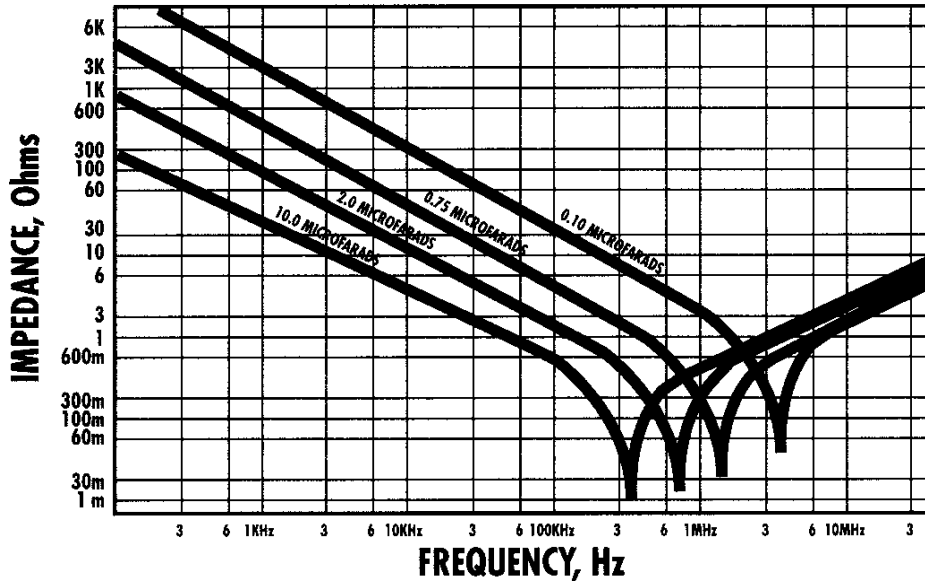
| 2000VDC/600VAC/2600V _{PEAK} * | | | | |
|--|-----------------|-----------------|-----------------------|----------|
| CAP (MFD) | T MAX | H MAX | I _{peak} (A) | ESR (mΩ) |
| 0.10 | 0.550" (14.0mm) | 1.050" (26.7mm) | 9.0 | 30.5 |
| 0.12 | 0.600" (15.2mm) | 1.050" (26.7mm) | 10.8 | 25.9 |
| 0.15 | 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 Ω x μ 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_{PEAK}, 1200VDC/500VAC/1600V_{PEAK}, AND 2000VDC/600VAC/2600V_{PEAK} 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 μ 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