# TLS

## Aluminum Electrolytic Capacitors

*+85°C Low Leakage, Axial Lead*

## FEATURES

Small size - High voltage - General purpose

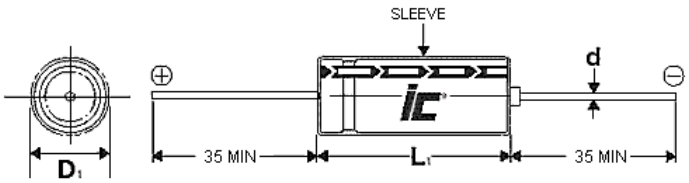
## APPLICATIONS

Inverters – DC link – AC/DC motor controls – Solar inverters

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Operating Temperature Range** | | **-40°C to +85°C** | | | | | |
| **Capacitance Tolerance** | | **±20% at 120 Hz, 20°C** | | | | | |
| **Surge Voltage** | **WVDC** | **10** | **16** | **25** | **35** | **50** | |
| | **SVDC** | 13 | 20 | 32 | 44 | 63 | |
| **Dissipation Factor** | **WVDC** | **10** | **16** | **25** | **35** | **50** | |
| | **Tan δ** | .2 | .16 | .14 | .12 | .1 | |
| **Leakage Current** | | **2 Minutes** | | | | | |
| | | .002CV or 0.4uA, Whichever is greater | | | | | |
| **Low Temperature Stability Impedance Ratio (120 Hz)** | **WVDC** | **10** | **16** | **25** | **35** | **50** | |
| | **-25°C to +20°C** | 3 | 2 | 2 | 2 | 2 | |
| | **-40°C to +20°C** | 8 | 6 | 4 | 3 | 3 | |

| | | |
|---|---|---|
| **Load Life** | **2000 hours at 105°C with rated WVDC and ripple current applied** | |
| | **Capacitance Change** | ≤20% of initial measured value |
| | **Dissipation Factor** | ≤150% of maximum specified value |
| | **Leakage Current** | ≥100% of maximum specified value |
| **Shelf Life** | **1000 hours at 105°C with no voltage applied** | |
| | **Capacitance Change** | ≤20% initial measured value |
| | **Dissipation Factor** | ≤200% of maximum specified value |
| | **Leakage Current** | ≥100% of maximum specified value |

| **Ripple Current Multipliers** | **Capacitance** | **Frequency (Hz)** | | | | | | **Temperature (°C)** | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **uF** | **50** | **120** | **400** | **1k** | **10k** | **50k** | **+85** | **+70** | **+60** | **+30** |
| | **C≤10** | .8 | 1.0 | 1.3 | 1.45 | 1.65 | 1.7 | 1.0 | 1.3 | 1.5 | 1.8 |
| | **10<C≤100** | .8 | 1.0 | 1.23 | 1.36 | 1.48 | 1.53 | 1.0 | 1.3 | 1.5 | 1.8 |




| D | 5 | 6.3 | 8 |
|---|---|---|---|
| d | 0.5 | 0.5 | 0.6 |
| B | 0.5 | 0.5 | 0.5 |

$L_1$=L+1.0mm Max. mm

$D_1$=D+B Max.


ILLINOIS CAPACITOR

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