



## 685MHBS45K2H

DC LINK

Parts are RoHS compliant

**APPLICATIONS:** DC link, Switching power supplies, induction heaters, Motor speed controls

### ELECTRICAL SPECIFICATIONS

**Capacitance:** 6.8  $\mu$ F

**Dissipation Factor:** 0.0008 Max at 1000 Hz and 25°C

**Temperature Coefficient:** -200 PPM/°C: -100 PPM/°C, 100 PPM/°C

**Ripple Current:** 9.5 A at 10 kHz - 60 kHz and +95°C

**ESR:** 7.6 milliOhms (typical) at 100 kHz and 25°C

**Self Inductance:** 1 Nanohenries maximum per mm of pitch

**dvdt:** 36 V/ $\mu$ s

**Tolerance:** -10 % , +10 %

**Temperature Range:** -40°C to +100°C

Above 85°C the rated (DC/AC) voltage must be derated at per 1.5%/°C

**WVDC:** 800 Volts DC

**SVDC:** 920 Volts DC

**VAC:** 315 Volts AC

**Terminal to Terminal Dielectric strength:** 1.6 times the rated DC voltage when applied between the terminals for 60 seconds

**Terminal to case Dielectric strength:** 3000 VAC when applied between the terminals and case for 60 seconds

**Insulation Resistance (Terminal to Terminal):** 3000 MINIMUM after 100 Volts DC is applied for 60 seconds at 20°C

**Insulation resistance (Terminal to Case):** N/A Megohms MINIMUM after 0 Volts DC is applied for 0 seconds at 0

**Reliability:** 300 failures/billion component hours

**Load Life:** 60000 hours at 70°C with 100% of rated voltage

**Capacitance Change:** 0 of initially measured value

**D.F. Change:** 0 of maximum specified value

**I.R. Change:** 0 of minimum specified value

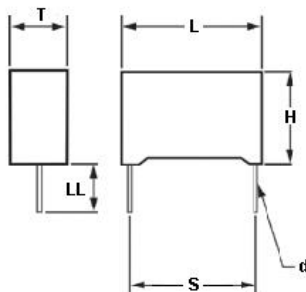
### PHYSICAL DIMENSIONS

**Length (L):** 32 mm, .6 mm

**Height (H):** 33 mm, +/- .8 mm

**Thickness (T):** 18 mm, +/- .45 mm

**Lead Spacing (S):** 27.5 mm, +/- 0.4 mm



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