

Ordering code:

KS2122K474A110

Standards:

IEC 61071 UL 810

Characteristics

Rated capacitance (C_N)	0.47 $\mu\text{F} \pm 10\%$
Rated voltage (U_{ND})	1200V
rms voltage (U_{rms})	550 V
Non-recurrent surge voltage (U_s)	1800 V
Maximum rate of voltage rise (dU/dt) _{max}	830 V/ μs
Maximum current (I_{max})	15 A @100kHz @60 °C
Maximum peak current (\hat{I})	390A
Series resistance (R_s)	4.6 m Ω @100kHz
Dissipation factor ($\tan \delta$)	$\leq 5.0 \times 10^{-4}$ @1kHz / 20°C
Test voltage between terminals (U_{TT})	1800 U_{ND} , 10s
Test voltage between terminals and case (U_{TC})	4000 VAC, 10s
Insulation Resistance	30000s @100Vdc /1min (25 ± 5°C).
Self inductance	$\leq 25\text{nH/mm}$
Operating temperature range (case)	-40 °C ... +105°C
Max. permissible ambient temperature	+85°C, operation at rated power, rated current and natural cooling
Storage temperature Θ_{stg}	-40 ... +105 °C
Damp heat test - Test conditions	Temperature : +40 °C Relative humidity : 93% ±2% Test duration : 56 days
	Capacitance change : $\leq \pm 5\%$ $\text{tg}\delta$ change: $\leq 50\%$ of nominal value at 1 kHz Insulation resistance: $\leq 50\%$ of limit value
Expected lifetime	100 000 h at U_{ND} @ Θ_{hs} 85°C 30 000 h at U_{rms} @ Θ_{hs} 85°C
Fit rate	50 (100 000 h at U_{ND} @ Θ_{hs} 85°C)

Designs

