

Ordering code:

KS1122K224S010

Standards:

IEC 61071 UL 810

#### Characteristics

Rated capacitance ( $C_N$ )	0.22 $\mu\text{F} \pm 10\%$
Rated voltage ( $U_{NDc}$ )	1200V
rms voltage ( $U_{RMS}$ )	550 V
Non-recurrent surge voltage ( $U_s$ )	1800 V
Maximum rate of voltage rise ( $dU/dt$ ) <sub>max</sub>	1200 V/ $\mu\text{s}$
Maximum current ( $I_{max}$ )	9 A @100kHz @70 °C
Maximum peak current ( $\hat{I}$ )	264A
Series resistance ( $R_s$ )	4.5 mΩ @100kHz
Dissipation factor ( $\tan \delta$ )	$\leq 5.0 \times 10^{-4}$ @1kHz / 20°C
Test voltage between terminals ( $U_{TT}$ )	1800 VDC, 10s
Test voltage between terminals and case ( $U_{TC}$ )	4000 VAC, 10s
Insulation Resistance	30000s @100Vdc /1min (25 ± 5°C).
Self inductance	$\leq 25\text{nH}$
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	<p>- Test conditions</p> <p>Temperature : +40 °C</p> <p>Relative humidity : 93% ±2%</p> <p>Test duration : 56 days</p> <p>Capacitance change : <math>\leq \pm 5\%</math></p> <p><math>\tan \delta</math> change: <math>\leq 50\%</math> of nominal value at 1 kHz</p> <p>Insulation resistance: <math>\leq 50\%</math> of limit value</p>
Expected lifetime	<p>100 000 h at <math>U_{NDc}</math> @ <math>\Theta_{hs}</math> 85°C</p> <p>30 000 h at <math>U_{RMS}</math> @ <math>\Theta_{hs}</math> 85°C</p>
Fit rate	50 (100 000 h at $U_{NDc}$ @ $\Theta_{hs}$ 85°C)

#### Designs

