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Cap μF	Ø x L mm	Tan δ MAX 120 Hz 20°C	ESR TYP m Ω 120 Hz 20°C	Z TYP m Ω 120 kHz 40°C	Ir a.c. A max 120 Hz 85°C	Part Number stud and insert style excluded
4700	63x130	0.15	17	33.6	15.6	KI07350472_M0H130

Voltage : 350

Specifications

Temperature Range	Operating: -40°C +85°C Storage : Preferably below +25°C, not exceeding +40°C																									
Rated Voltage Range (V_r)	from 16V to 350V DC from 400V to 450V DC																									
Surge Voltage (V_p)	V _p = 1.15 V _r (V _r ≤ 250V DC) V _p = 1.10 V _r (V _r ≥ 250V DC)																									
Rated Capacitance Range	from 1800 μF to 47000 μF																									
Capacitance Tolerance	±20% at 120 Hz, 20°C (M class IEC-62) on request: -10% +30% at 120 Hz, 20°C (Q class IEC-62)																									
Leakage Current (I_L) (mA, 5 min, 20°C)	max I _L = 0.008 C _r V _r + 4 μA																									
Ripple current (I_r)	Refer to table at 85°C and 120Hz. <table border="1"> <thead> <tr> <th>Frequency</th> <th>50Hz</th> <th>100Hz</th> <th>500 Hz</th> <th>1000Hz</th> <th>>10kHz</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>0.88</td> <td>1.0</td> <td>1.45</td> <td>1.5</td> <td>1.55</td> </tr> </tbody> </table> <p>Due to the current load capability of the contact elements, the following limits must not be exceeded:</p> <table border="1"> <thead> <tr> <th>Capacitor Diameter</th> <th>35mm</th> <th>51mm</th> <th>63mm</th> <th>76mm</th> <th>90mm</th> </tr> </thead> <tbody> <tr> <td>Maximum current</td> <td>20A</td> <td>30A</td> <td>40A</td> <td>50A</td> <td>70A</td> </tr> </tbody> </table>		Frequency	50Hz	100Hz	500 Hz	1000Hz	>10kHz	Multiplier	0.88	1.0	1.45	1.5	1.55	Capacitor Diameter	35mm	51mm	63mm	76mm	90mm	Maximum current	20A	30A	40A	50A	70A
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Insulation Resistance	At 100V DC for 1 min is >100 MΩ across insulating sleeve and terminals.																									
Vibration Resistance	Frequency range: 10 Hz to 55 Hz, amplitude 0.75 mm Capacitor length ≤ 130 : max acceleration 10g for 3x2 h Capacitor length > 130 : max acceleration 5g for 3x0.5 h																									
Life test	After 2,000 hours application of rated voltage at 85°C capacitors meet characteristics aside	<table border="1"> <tbody> <tr> <td>Cap change</td> <td>≤ ±15%</td> </tr> <tr> <td>tan δ</td> <td>≤ 175%</td> </tr> <tr> <td>Leakage current(I_L)</td> <td>< initial limit</td> </tr> <tr> <td>Impedance (Z)</td> <td>≤ 175%</td> </tr> </tbody> </table>	Cap change	≤ ±15%	tan δ	≤ 175%	Leakage current(I _L)	< initial limit	Impedance (Z)	≤ 175%																
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Shelf life	After leaving capacitors under no load for 500 hours at 85°C, when restored at 20°C meet specifications aside	<table border="1"> <tbody> <tr> <td>Cap change</td> <td>≤ ±15%</td> </tr> <tr> <td>tan δ</td> <td>≤ 150%</td> </tr> <tr> <td>Leakage current(I_L)</td> <td>< initial limit</td> </tr> </tbody> </table>	Cap change	≤ ±15%	tan δ	≤ 150%	Leakage current(I _L)	< initial limit																		
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Self inductance	Approx. 20 nH																									
Reference standards	CECC 30.300 IEC 60384-4 Long Life Grade																									