

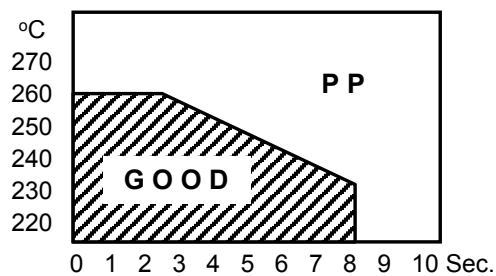
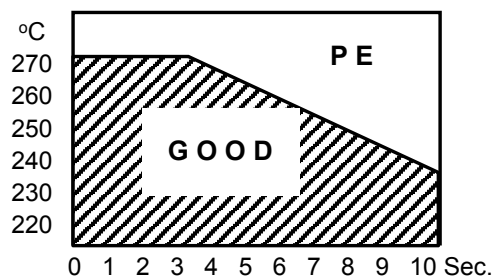
Characteristics

TYPE :CL21

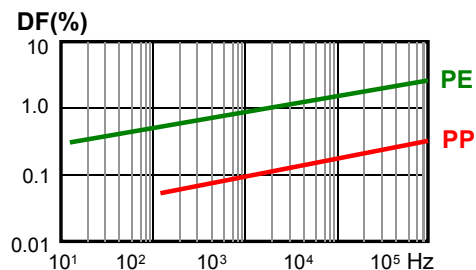
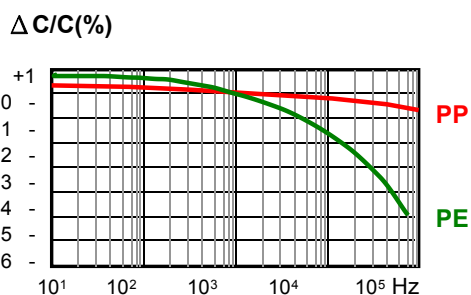
No.	Test items		Test method	Characteristics
1	Climatic Category		/	40/85/21
2	Rated voltage		/	50V — 250VDC
3	Withstand Voltage(TV)		160% of rated voltage for 5sec.	Shall be no abnormality.
4	Capacitance(CAP)		Measuring Frequency:1KHz±10%. Measuring Voltage :1Vrms.max.	0.001uF — 1.0uF
5	Tolerance (%)		/	J(±5%); K (±10%)
6	Dissipation Factor(DF)		Measuring Frequency:1KHz±10%. Measuring Voltage :1Vrms.max.	0.01 (1%)max. at 1 KHz.
7	Insulation resistance(IR)		Apply 100V±15%for 60±5sec.at+20 ±2°C .	≥30,000MΩ(C≤0.33uF) ≥15,000MΩ·uF/C (C>0.33uF)
8	Terminal Strength	Tensile	Apply 1.0 kg for 10 ± 1sec. to the terminal in the axial direction, and acting in a direction away from the body.	Shall be no abnormality.
9		Bending	Apply 0.5 kg for 2 cycles. Each cycle includes: 90°once, return to its initial position for 2-3 sec. and then to the opposite direction once.	Shall be no abnormality.
10	Solderability		Soldering temperature:250 ±3°C ; Immersion duration: 2.0 ±0.5sec	Good Tinning.
11	Soldering Heat Resistance		Soldering Temperature : +260 ± 5°C . Immersion Duration : 10 ±1sec.	CAP(ΔC/C) Within ±2% of the value before test. DF 0.003(0.3%) max at 1KHz
12	Rapid Temperature Change		Test Temperature Cycle : Total 5 cycles. High Temperature : +85±5 °C Low Temperature : -40 ±5°C 30 min ± 10% for each temperature.	Shall be no abnormality. CAP(ΔC/C) Within ±5% of the value before test. DF 1 KHz : 0.003 (0.3%) max.
13	Damp Heat Loading		Test temperature :+40 ± 2°C Test humidity : 90% to 95% R.H. Test voltage : rated voltage. Test duration : 500 +24/-0 hrs.	Shall be no remarkable change. The marking shall be legible. CAP(ΔC/C) Within ±5% of the value before test. DF 0.005 (0.5%) max.at 1KHz
14	Climatic Sequence	Dry heat	Temperature: 85°C,Duration: 16 hrs.	Shall be no abnormality. Shall be no remarkable change. CAP(ΔC/C) Within ±5% of the value before test. DF 0.005 (0.5%) max.at 1KHz IR≥50% of the limit value of No. 7
		Humid Cool	—40°C,Duration: 2 hrs.	
		Air pressure	Temperature: 15°C—35°C,Pressure: 8.5KPa; Duration: 1 hr; After experiment, applied vottage 1 min.	
		Temperature Cycle	Test Temperature Cycle:Total 5 cycles. Each cycle includes : 1. +20 ±2°C for 3min. 2. -40 ±3 °C for 30 min. 3. +20 ±2°C for 3min. 4. +100 +3/-0 °C for 30 min. 5. +20 ±2°C for 3 min.	
15	Durability		85°C,Applied 1.25 multiple rate voltage, Duration: 1000 hours (41.6 days)	No visible damage and clear mark; CAP(ΔC/C) Within ±5% of the value before test. DF 0.005 (0.5%) max.at 1KHz IR≥50% of the limit value of No. 7
16	Charge & Discharge		Experiment period :10000 times; Charge duration: 0.5s; Discharge duration: 0.5s;	CAP(ΔC/C) Within ±5% of the value before test. DF 0.005 (0.5%) max.at 1KHz IR≥50% of the limit value of No. 7

CHARACTERISTICS REFERENCE

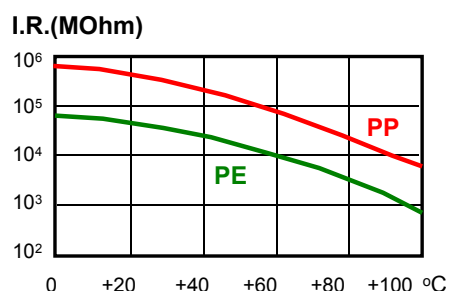
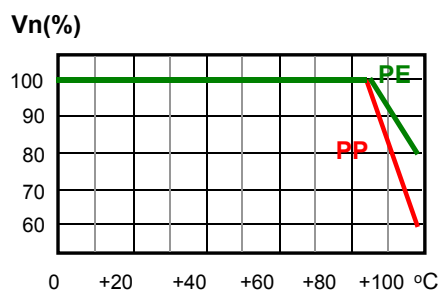
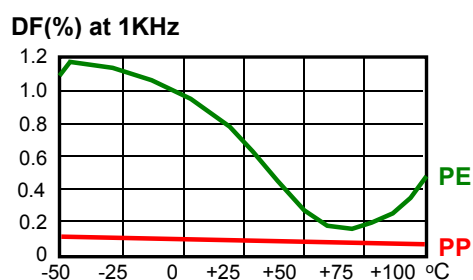
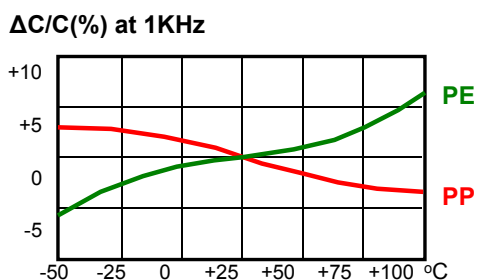
Soldering Temperature VS Time



Frequency Characteristics

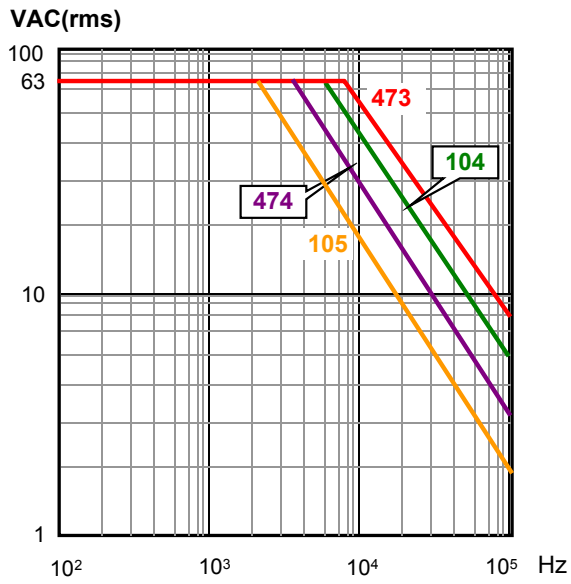


Temperature Characteristics

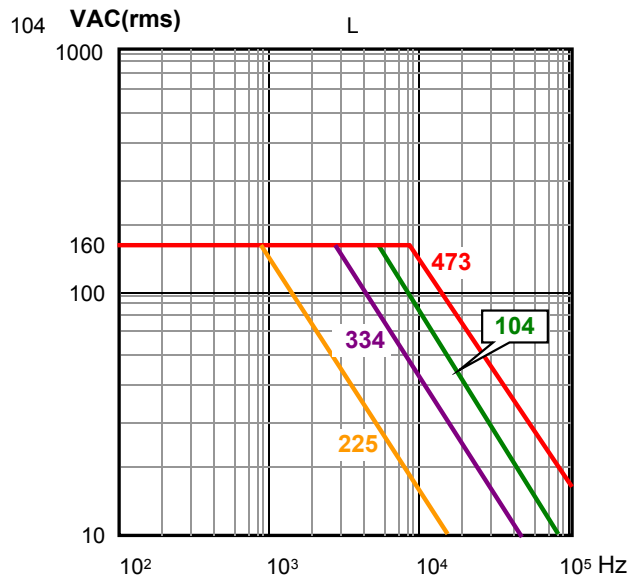


CL21 Permissible AC Voltage VS Frequency Curve

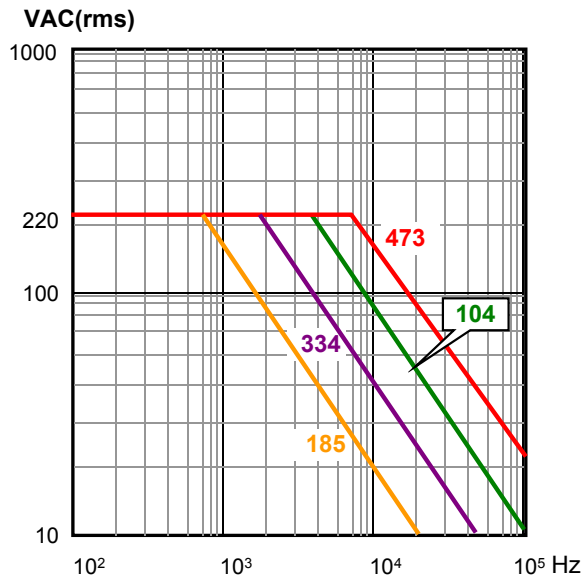
100VDC / 63VAC



250VDC / 160VAC



400VDC / 220VAC



630VDC / 250VAC

