



PRODUCT SPECIFICATIONS

Ropla Elektronik Sp. z o.o.

DESCRIPTIONS : Metallized Polypropylene Film Capacitor(Interference Suppressors Class - X2)

TYPE : X2-MKP

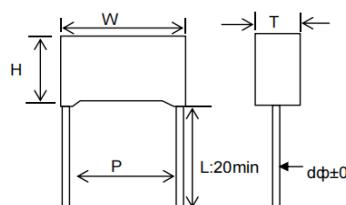


Fig. 1

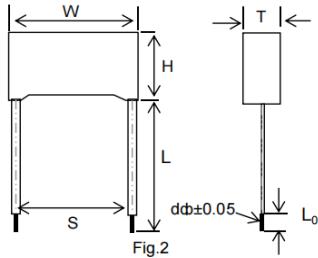


Fig.2

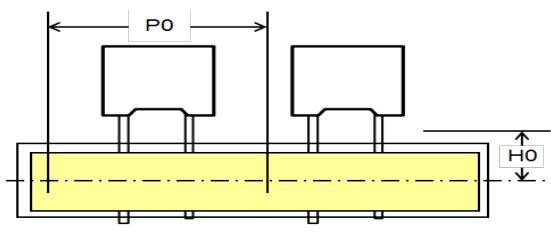


Fig. 3

1. PRODUCT DIMENSIONS :

unit : mm

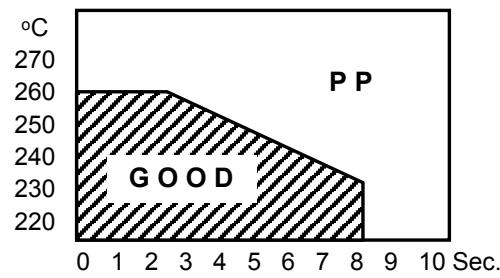
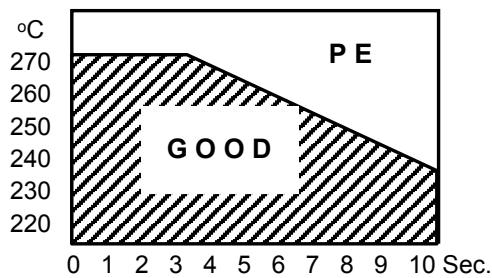
★ Characteristics

TYPE :X2-MKP

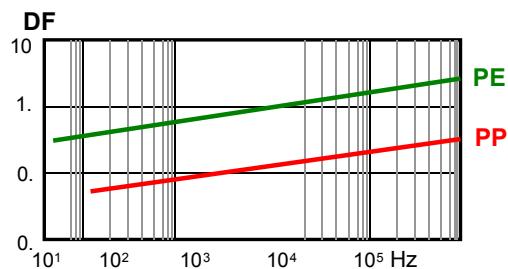
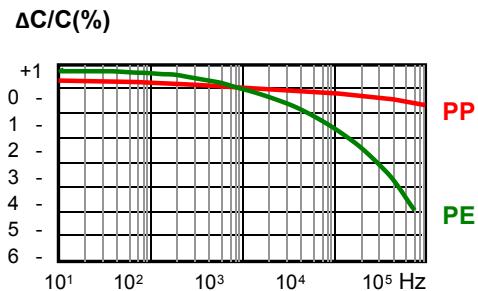
No.	Test items	Test method	Characteristics
1	Climatic Category	/	40/110/21/B
2	Rated voltage	/	275VAC 310VAC
3	Withstand Voltage(TV)	430% of rated voltage for 60sec.	Shall be no abnormality.
4	Capacitance(CAP)	Measuring Frequency:1KHz±10%. Measuring Voltage :1Vrms.max.	0.001uF — 10uF
5	Tolerance (%)	/	K (±10%)
6	Dissipation Factor(DF)	Measuring Frequency:1KHz±10%. Measuring Voltage :1Vrms.max.	0.0015 (0.15%)max. at 1 KHz.
7	Insulation resistance(IR)	Apply 100V±15%for 60±5sec.at+20 ±2°C .	≥15,000MΩ(C≤0.33uF) ≥5,000MΩ·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.
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.
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(△C/C) Within ±5% of the value before test. DF 0.002(0.2%) max.at 1Khz
12	Rapid Temperature Change	Test Temperature Cycle : Total 5 cycles. High Temperature : +100±5 °C Low Temperature : -40 ±5°C 30 min ± 10% for each temperature.	Shall be no abnormality. CAP(△C/C) Within ±5% of the value before test. DF 0.002(0.2%) max.at 1Khz
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(△C/C) Within ±5% of the value before test. DF 0.002 (0.2%) max.at 1Khz
14	Climatic Sequence	Dry heat	Temperature: 105°C,Duration: 16 hrs.
		Humid Cool	—40°C,Duration: 2 hrs.
		Air pressure	Temperature: 15°C—35°C,Pressure: 8.5KPa; Duration: 1 hrs; After experiment, applied votage 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	105°C,Applied 1.25 multiple rate voltage, Duration: 1000 hours (41.6 days)	No visible damage and clear mark; CAP(△C/C) Within ±10% 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(△C/C) Within ±10% 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

