DATASHEET 270MFD 500VDC

Part No. : FP271M501BG3P4

Series : FP, 105º C 3000hrs Life

TYPE : Snap-in

Rating : 270µF 500 WV

Size : 25 φ ×50 L

Features : General purpose, Conform RoHS

Operating Temperature Range : -25ºC to +105ºC

Capacitance Tolerance : ±20% at 25 ºC 120 Hz

Surge voltage : 550V

Leakage Current : 0.02CV in µA or 3 mA, whichever is smaller.

(Charging at rated voltage for 5mins) C: Rated capacitance (µF), V: Rated voltage (V)

Dissipation Factor (tanδ) : ≤ 0.10 at 25º C, 120Hz

Ripple current (I_A) : 1.29A at 120Hz, 105º C

Max ESR (m ohm) :983m ohm @ 120hz

LIFE TEST:

Test time	3000hrs
After Test: Capacitance change Dissipation factor Leakage Current	 ±20% of the initial value Less than 200% of Specified Value Within specified value

SHELF TEST:

Test time	1000hrs
After Test: Capacitance change Dissipation factor	 ±20% of the initial value Less than 200% of Specified Value

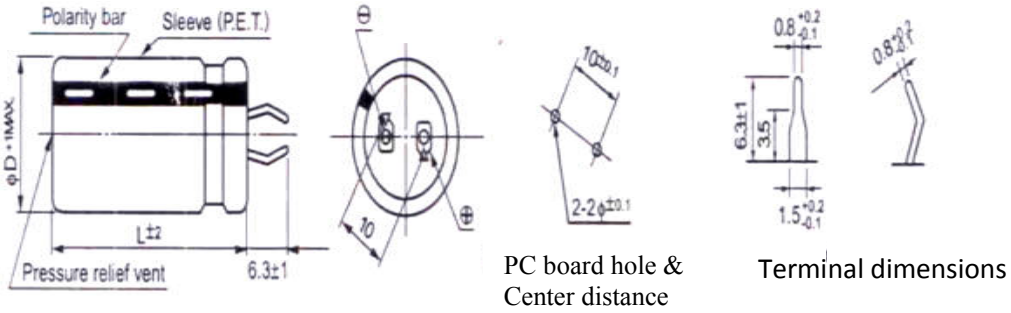
Leakage Current	Within specified value

RIPPLE CURRENT AND FREQUENCY MULTIPLIER

Freq. in Hz	50	120	300	1K	≥10K
CAP in μF	0.88	1	1.07	1.15	1.20

RIPPLE CURRENT AND TEMPERATURE MULTIPLIER

Temp. in ºC	≤ 40	50	60	70	85	90	105
Multiplier	1.9	1.8	1.7	1.6	1.35	1.25	1



PC board hole & Center distance

Terminal dimensions

Note:

1) Terminal height of 4±1mm is also available.
2) Reference standard IEC 60384-4/ IS 4317