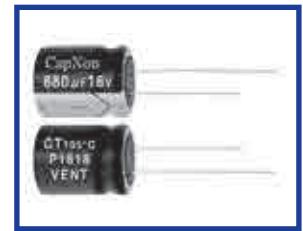


GT Series 105°C Miniaturized, Long Life



Features

- ◆ Long Life: 105°C 10000hours.
- ◆ RoHS compliance.

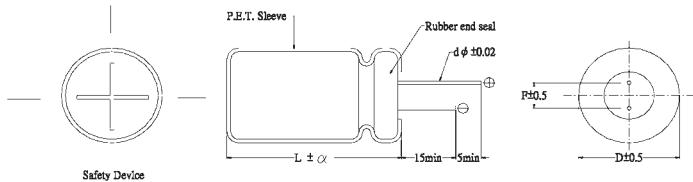
Specifications

Item	Performance Characteristics							
Operating Temperature Range	-40 to +105°C							
Rated Voltage Range	10~100V.DC							
Capacitance Tolerance	$\pm 20\%$ (120Hz,+20°C)							
Leakage Current (+20°C,max.)	$I \leq 0.01CV$ or $3\mu A$ whichever is greater. (After 2 minutes) I= Leakage Current(μA) C= Rated Capacitance V= Rated voltage(V)							
Dissipation Factor ($\tan \delta$, at 20°C, 120Hz)	Working Voltage(VDC)	10	16	25	35	50	63	100
	D.F.(%)max.	45	35	30	22	19	17	15
Low Temperature Characteristics (at 120Hz)	Impedance ratio max							
	Rated voltage(VDC)	10	16	25	35	50	63	
	Z-25°C / Z+20°C	10	8	6	6	5	5	
For capacitance > 1000 μF , add 1 per another 1000 μF for -40°C/+20°C.								
Endurance	Duration time	:10000Hrs						
	Ambient temperature	:+105°C						
	Applied voltage	:Rated DC working voltage						
	After test requirement at +20°C	: $\leq \pm 25\%$ of the initial measured value						
	Capacitance change	: $\leq 300\%$ of the initial specified value						
	Dissipation factor	: \leq The initial specified value						
Shelf Life	Test condition							
	Duration time	:1000 Hrs						
	Ambient temperature	:+105°C						
	Applied voltage	:None						
	After test requirement at +20°C	:Same limits as Endurance.						
Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.								

Multiplier for Ripple Current vs. Frequency

CAP(μF)\Frequency(Hz)	120	1K	10K	100K \leq
1~10 μF	0.42	0.60	0.80	1.00
22~33 μF	0.55	0.75	0.90	1.00
47~330 μF	0.70	0.85	0.95	1.00

Diagram of Dimensions:(unit:mm)



DΦ	5	6.3	8
F	2.0	2.5	3.5
dΦ	0.5		L<20 L≥20
			0.5 0.6
α	α = 1.5		

Case Size

WV (Vdc)	Cap (uF)	Size (mm)	Rated Ripple current (mArms/105°C /100KHz)
10	100	5x11	140
10	220	6.3x11	220
10	330	8x11.5	340
16	47	5x11	140
16	100	6.3x11	220
16	220	8x11.5	340
25	33	5x11	140
25	47	5x11	140
25	100	6.3x11	220
35	33	5x11	90
35	47	6.3x11	220
35	100	8x11.5	340
50	1	5x11	26
50	2.2	5x11	36
50	3.3	5x11	75
50	4.7	5x11	85

WV (Vdc)	Cap (uF)	Size (mm)	Rated Ripple current (mArms/105°C /100KHz)
50	10	5x11	95
50	22	5x11	140
50	33	6.3x11	200
50	47	6.3x11	200
50	100	8x11.5	280
63	10	5x11	85
63	22	6.3x11	180
63	33	6.3x11	180
63	47	8x11.5	250
100	1	5x11	40
100	2.2	5x11	50
100	3.3	5x11	60
100	4.7	5x11	70
100	10	6.3x11	150
100	22	8x11.5	230