



GT

125 -

Conductive Polymer Hybrid Aluminum Electrolytic Capacitors (125 Type) - Radial Type

Features

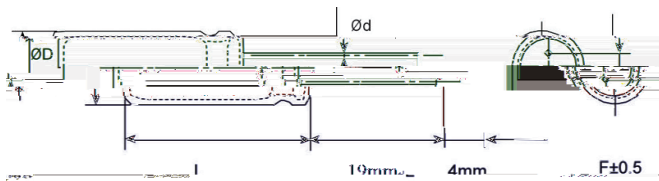
- Long life, Low DC Leakage current, High reliability.
- 125 5000
- Endurance: 5000 h at 125



Specifications

Items	Characteristics							
Operating Temperature Range	-55- +125							
Rated Voltage Range	16- 100V DC							
Nominal Capacitance Range	22- 1200 μ F							
Nominal Capacitance Tolerance	\pm 20% 20 120Hz							
Leakage Current	0.05CV(μ A) or 80 μ A ,whichever is greater 20 C 2 at 20 after 2 minutes (μ F) V (VDC)							
tg Dissipation Factor (Max)	20 , 120Hz	<table border="1"> <thead> <tr> <th>(Vdc)</th> <th>16- 25V</th> <th>35- 100V</th> </tr> </thead> <tbody> <tr> <td>Tg</td> <td>0.14</td> <td>0.10</td> </tr> </tbody> </table>	(Vdc)	16- 25V	35- 100V	Tg	0.14	0.10
(Vdc)	16- 25V	35- 100V						
Tg	0.14	0.10						
ESR	Reference parameter table (m at 100k- 300kHz 20 max)							
Characteristics of impedance ratio at high temp. and low temp	100KHZ Based the value at 100KHZ.	<table border="1"> <thead> <tr> <th>Z -25</th> <th>/Z +25</th> <th>1.5</th> </tr> </thead> <tbody> <tr> <td>Z -55</td> <td>/Z +25</td> <td>2.0</td> </tr> </tbody> </table>	Z -25	/Z +25	1.5	Z -55	/Z +25	2.0
Z -25	/Z +25	1.5						
Z -55	/Z +25	2.0						
Load Life	125	5,000 20						
	The capacitor shall be subjected to application of the D.C. voltage with full rated ripple current at +125 for 5000 hours. After stabilizing at 20 , the capacitor shall not exceed the specified limits. (The sum of DC voltage and ripple peak voltage shall not exceed the rated voltage.)							
	Capacitance Change	\pm 25% Within \pm 25% of the initial value						
	Dissipation Factor	200% Not to exceed 200% of the value specified						
	Equivalent Series Resistance	200% Not to exceed 200% of the value specified						
Leakage Current	Not to exceed the value specified							
Shelf Life Test	125 \pm 2 1000H 20	After storage for 1000 hours at +125 \pm 2 with no voltage applied and then being stabilized at +20 the capacitor shall not exceed the specified values listed below.						
	Capacitance Change	\pm 25% Within \pm 25% of the initial value						
	Dissipation Factor	200% Not to exceed 200% of the value specified						
	Equivalent Series Resistance	200% Not to exceed 200% of the value specified						
	Leakage Current	Not to exceed the value specified						

Dimensions



Size List

Unit: mm

D +0.5max	8	10
F ±0.5	3.5	5
d(±0.05)	0.6	0.6
L	+1.0max	

Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

Rated Volt. (V)	Capacitance (uF)	Size D×L(mm)	Tan 120HZ,20	LC μA	ESR (m /at 100k~ 300kHz 20 max)		Rated R. C. (mA/rms at 100kHz 125)
16	560	8×12	0.14	448		22	1800
	680	8×16	0.14	544		20	2050
	820	10×12.5	0.14	656		18	2200
	1000	10×16	0.14	800		16	2400
	1200	10×16	0.14	960		16	2400
25	330	8×12	0.14	412		23	1600
	470	8×16	0.14	587		20	1800
	560	10×12.5	0.14	700		18	1900
	680	10×16	0.14	850		16	2150
	820	10×16	0.14	1025		16	2150
35	100	8×12	0.1	175		24	1400
	220	8×16	0.1	385		22	1550
	270	10×12.5	0.1	472		20	1700
	330	10×16	0.1	577		18	1900
50	100	8×12	0.1	250		30	1100
	150	10×12.5	0.1	375		26	1450
	150	8×16	0.1	375		28	1250
	220	10×16	0.1	550		24	1600
63	68	8×12	0.1	214		36	900
	100	10×12.5	0.1	315		30	1250
	100	8×16	0.1	315		32	1100
	150	10×16	0.1	472		28	1450
	180	10×16	0.1	567		28	1450
80	27	8×12	0.1	108		55	450
	33	8×16	0.1	132		50	600
	47	10×12.5	0.1	188		45	750
	68	10×16	0.1	272		40	900
100	22	8×12	0.1	110		55	450
	27	8×16	0.1	135		50	600
	33	10×12.5	0.1	165		45	750
	47	10×16	0.1	235		40	900

Frequency correction factor for ripple current

Frequency KHz	0.1 Freq. 0.5	0.5 Freq. 1	1 Freq. 5	5 Freq. 10	10 Freq. 50	50 Freq. 100	100 Freq. 300
Coefficient	0.10	0.30	0.4	0.6	0.75	0.9	1