

PT series 125°C Guaranteed



Features

- ◆ 125°C Guaranteed.
- ◆ Low ESR at high frequency range.

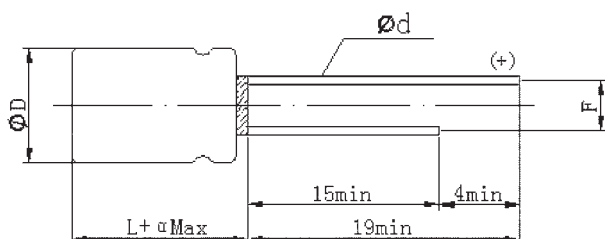
Specifications

Item	Performance Characteristics	
Operating Temp. Range	-55°C~+125°C	
Rated Voltage Range	2.5~50V DC	
Capacitance Range	22 to 2700 μF	
Capacitance Tolerance	±20% (120Hz , +20°C)	
Leakage Current	Not to exceed the values shown in Standard Ratings (Rated voltage applied, after 2 minutes at 20°C)	
Dissipation Factor (tan δ , at 20°C , 120Hz)	Not to exceed the values shown in Standard Ratings	
ESR (at 100KHz , 20°C)	Not to exceed the values shown in Standard Ratings	
Endurance 125°C , 2000h , at rated voltage	Capacitance Change	Within ±20% of the value before test
	Leakage current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
Moisture Resistance Stored at 60°C , RH90~95% , 1000h	Capacitance Change	Within ±20% of the value before test
	Leakage Current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified

Frequency Coefficient for Ripple Current

Frequency	120Hz ≤ freq. < 1KHz	1KHz ≤ freq. < 10KHz	10KHz ≤ freq. < 100KHz	100KHz ≤ freq. < 300KHz
Coefficient	0.05	0.3	0.7	1

Diagram of Dimensions:(unit:mm)



φ DxL	ΦD+0.5max.	α	F	Φd±0.05
6.3x5.2	6.3	1	2.5	0.45
6.3x11	6.3	1.5	2.5	0.6
8x7	8.0	1.0	3.5	0.6
8x8	8.0	1.0	3.5	0.6
8x11.5	8.0	1.5	3.5	0.6
10x8	10.0	1.0	5.0	0.6
10x10	10.0	1.5	5.0	0.6
10x12.5	10.0	1.5	5.0	0.6

Standard Ratings

W.V. (V)	Cap(μF)	Size φ DxL(mm)	L.C. (μA,2min)	tg δ (120Hz,20°C)	ESR (mΩ),100KHz)	Rated Ripple Current		Allowable Ripple Current	
						100KHz (mA,r.m.s)			
						105°C < Tx ≤ 125°C		Tx ≤ 105°C	
2.5	820	8x8	410	0.08	9	1741		5500	
	1000	8x11.5	500	0.08	9	1929		6100	
	1500	8x11.5	750	0.08	9	1929		6100	
	2000	10x12.5	1000	0.08	9	2100		6640	
	2700	10x12.5	1350	0.08	9	2100		6640	
4	150	6.3x5.2	300	0.08	40	572		1810	
	330	8x7	264	0.08	30	949		3000	
	560	8x8	224	0.08	9	1741		5500	
		8x11.5	224	0.08	9	1929		6100	
	680	10x8	544	0.08	25	1170		3700	
	820	8x8	328	0.08	9	1741		5500	
	1200	8x11.5	960	0.08	9	1929		6100	
	1500	10x12.5	1200	0.08	9	2100		6640	
	2500	10x12.5	2000	0.08	9	2100		6640	
6.3	82	6.3x5.2	258	0.08	40	569		1800	
	150	8x7	472.5	0.08	30	949		3000	
	330	10x8	415.8	0.08	25	1170		3700	
	390	8x8	491.4	0.08	9	1741		5500	
	470	8x11.5	592	0.08	9	1929		6100	
	680	8x8	428	0.08	9	1741		5500	
		10x12.5	428	0.08	9	1929		6100	
	820	10x12.5	516.6	0.10	9	1929		6100	
	1000	8x11.5	630	0.10	9	1929		6100	
	1500	10x12.5	945	0.10	9	2100		6640	
	2000	10x12.5	1260	0.10	9	2100		6640	
	10	56	6.3x5.2	280	0.08	40	569		1800
120		8x7	240	0.08	30	949		3000	
220		8x11.5	220	0.08	9	1929		6100	
270		10x8	270	0.08	25	1170		3700	
330		8x11.5	330	0.08	9	1929		6100	
560		10x12.5	560	0.10	9	1929		6100	
680		8x11.5	680	0.10	9	1929		6100	
1000		10x12.5	1000	0.10	9	2100		6640	
16	39	6.3x5.2	312	0.08	40	569		1800	
	82	8x7	300	0.08	30	854		2700	
	100	6.3x11	160	0.08	12	1518		4800	
	150	8x8	240	0.08	18	1140		3600	
		10x8	240	0.08	25	1044		3300	
	180	8x11.5	288	0.08	10	1771		5600	
	220	8x11.5	352	0.08	10	1771		5600	
	270	8x11.5	432	0.08	10	1771		5600	
	330	8x11.5	528	0.08	10	1771		5600	
	470	10x12.5	752	0.10	10	1929		6100	
	560	10x12.5	896	0.10	10	1929		6100	
20	22	6.3x5.2	220	0.12	60	458		1450	
	47	8x7	300	0.12	30	854		2700	
	68	10x8	272	0.12	30	949		3000	
	100	8x11.5	400	0.12	22	1234		3900	
	120	8x8	480	0.12	25	981		3100	
	150	8x11.5	600	0.12	22	1234		3900	
		10x12.5	600	0.12	20	1424		4500	
	270	10x12.5	1080	0.12	20	1551		4900	

Ripple Current(mA,rms)at 125°C, 100KHz

W.V. (V)	Cap(μF)	Size φ DxL(mm)	L.C. (μA,2min)	tg δ (120Hz,20°C)	ESR (mΩ),100KHz)	Rated Ripple Current	
						100KHz (mA,r.m.s)	
						105°C < Tx ≤ 125°C	Tx ≤ 105°C
25	68	8x11.5	340	0.12	24	1108	3500
	82	8x8	410	0.12	25	981	3100
	100	10x12.5	500	0.12	20	1424	4500
	120	8x11.5	600	0.12	22	1234	3900
	180	10x12.5	900	0.12	20	1424	4500
35	39	8x8	273	0.12	32	823	2600
	56	8x11.5	392	0.12	25	1013	3200
	100	10x12.5	700	0.12	22	1266	4000
50	22	8x8	220	0.12	35	790	2500
	27	8x11.5	270	0.12	32	854	2700
	33	10x10	330	0.12	30	1100	3476
	47	10x12.5	470	0.12	25	1297	4100

Ripple Current(mA,rms)at 125°C,100KHz