

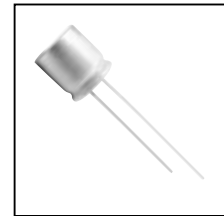
# SOLID CAPACITOR

## PT Series

Aluminum Solid Electrolytic Capacitor  
With Conductive Polymer



- Super low E.S.R. impedance and high heat resistance.
- Suitable for DC-DC converters, voltage regulators and decoupling applications used for computer motherboards etc.

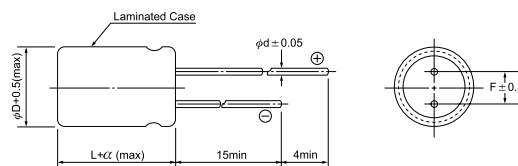


### SPECIFICATION

Item	Characteristic					
Operation Temperature Range	-55 ~ +105°C					
Rated Working Voltage	2.5 ~ 16V					
Capacitance Tolerance (120Hz 20°C)	±20%					
Leakage Current (2min)	The initial specified value in Characteristic list					
Surge Voltage (20°C)	W.V.	2.5	4	6.3	10	16
	S.V.	2.8	4.6	7.2	11.5	18.4
Tangent of loss angle (120Hz)	The initial specified value or loss (in Characteristic list)					
Impedance Ratio	Impedance ratio at 100kHz					
	Rated Voltage (V)	2.5	4	6.3	10	16
	-55°C / +20°C	≤ 1.25				
	+105°C / +20°C	≤ 1.25				
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C					
	Capacitance Change	≤ ±20% of the initial measured value				
	Dissipation Factor	≤ 150% of the initial specified value				
	ESR	≤ 150% of the initial specified value				
	Leakage current	≤ initial specified value				
Bias Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to DC voltage at 60°C, 90 to 95% RH for 1000 hours					
	Capacitance Change	≤ ±20% of the initial measured value				
	Dissipation Factor	≤ 150% of the initial specified value				
	ESR	≤ 150% of the initial specified value				
	Leakage current	≤ initial specified value				
Surge Voltage Test	The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltage specified at 105°C for 30 seconds through a protective resistor (R=1kΩ) and discharge for 5 minutes 30 seconds.					
	Capacitance Change	≤ ±20% of the initial measured value				
	Dissipation Factor	≤ 150% of the initial specified value				
	ESR	≤ 150% of the initial specified value				
	Leakage current	≤ initial specified value				
Failure Rate	1% per 1000 hours maximum (Confidence level 60% at 105°C)					

### DIMENSIONS (mm)

φD	6.3φ	8φ	10φ
F	2.5	3.5	5.0
D	0.5	0.6	0.6
α	1.0	1.5	1.5



7170 N. Ridgeway  
Lincolnwood, IL 60712  
Ph: 847-675-1865  
Fax: 847-675-3345  
Email: sales@icd-sales.com  
Website: www.icd-sales.com

● CASE SIZE & CHARACTERISTICS LIST

Rated Voltage (V.DC)	Rated Capacitance (μF)	Case size		Leakage Current (μA)	Tangent of loss angle (max)	E. S. R. at 100kHz (mΩ)	Allowable ripple current (mA.rms)	Part Number
		φD	L					
		(mm)						
2.5	390	6.3	11.5	195	0.06	20	3160	PTR391M0EEBBW
	560	8.0	8.0	280	0.06	7	6100	PTR561M0EF08W
	680	8.0	8.0	340	0.06	7	6100	PTR681M0EF08W
	820	8.0	8.0	410	0.06	7	6100	PTR821M0EF08W
	1000	8.0	8.0	500	0.06	7	6100	PTR102M0EF08W
	1200	8.0	8.0	600	0.06	7	6100	PTR122M0EF08W
	820	8.0	11.5	410	0.06	7	6100	PTR821M0EFBBW
	1500	10.0	9.0	750	0.06	7	6100	PTR152M0EG09W
	1800	10.0	9.0	900	0.06	7	6100	PTR182M0EG09W
	2200	10.0	9.0	1100	0.06	7	6100	PTR222M0EG09W
	1500	10.0	12.5	750	0.06	10	4800	PTR152M0EGBCW
	2200	10.0	12.5	1100	0.06	10	4800	PTR222M0EGBCW
2700	10.0	12.5	1350	0.06	8	5500	PTR272M0EGBCW	
4	220	6.3	9.0	176	0.06	15	3500	PTR221M0GE09W
	270	6.3	11.5	216	0.06	20	3160	PTR271M0GEBBW
	390	6.3	11.5	312	0.06	24	3300	PTR391M0GEBBW
	560	8.0	8.0	448	0.06	7	6100	PTR561M0GF08W
	680	8.0	8.0	544	0.06	7	6100	PTR681M0GF08W
	820	8.0	8.0	656	0.06	7	6100	PTR821M0GF08W
	1000	8.0	8.0	800	0.06	7	6100	PTR102M0GF08W
	1200	10.0	9.0	960	0.06	7	6100	PTR122M0GG09W
	1500	10.0	9.0	1200	0.06	7	6100	PTR152M0GG09W
	2200	10.0	12.5	1760	0.06	7	6100	PTR222M0GGBCW
6.3	220	6.3	9.0	277	0.06	15	3500	PTR221M0JE09W
	330	6.3	11.5	416	0.06	28	3190	PTR331M0JE09W
	330	8.0	8.0	416	0.06	8	5500	PTR331M0JF08W
	390	8.0	8.0	491	0.06	8	5500	PTR391M0JF08W
	470	8.0	8.0	592	0.06	8	5500	PTR471M0JF08W
	560	8.0	8.0	706	0.06	8	5500	PTR561M0JF08W
	680	8.0	8.0	857	0.06	8	5500	PTR681M0JF08W
	820	8.0	11.5	1033	0.06	15	4800	PTR821M0JFBBW
	820	10.0	9.0	1033	0.06	7	6100	PTR821M0JG09W
	1000	10.0	9.0	1260	0.06	7	6100	PTR102M0JG09W
	1200	10.0	12.5	1512	0.06	7	6100	PTR122M0JGBCW
1500	10.0	12.5	1890	0.06	7	6100	PTR152M0JGBCW	
10	120	6.3	9.0	240	0.06	15	3500	PTR121M1AE09W
	100	6.3	11.5	200	0.06	25	2820	PTR101M1AEBBW
	150	6.3	11.5	300	0.06	25	2820	PTR151M1AEBBW
	220	8.0	8.0	440	0.06	12	4000	PTR221M1AF08W
	270	8.0	8.0	540	0.06	10	4500	PTR271M1AF08W
	470	8.0	8.0	940	0.06	10	4800	PTR471M1AF08W
	470	8.0	11.5	940	0.06	15	5000	PTR471M1AFBBW
	680	10.0	9.0	1360	0.06	8	5500	PTR681M1AG09W
	820	10.0	9.0	1640	0.06	8	5500	PTR821M1AG09W
	1000	10.0	12.5	2000	0.06	8	5500	PTR102M1AGBCW
16	100	8.0	8.0	320	0.06	20	4000	PTR101M1CF08W
	180	8.0	11.5	576	0.06	16	4360	PTR181M1CFBBW
	330	10.0	9.0	1056	0.06	12	5100	PTR331M1CG09W
	470	10.0	12.5	1504	0.06	12	5500	PTR471M1CGBCW