

PE SERIES • ULTRA MINIATURIZED TYPE

KEY FEATURES



- SOLID CONDUCTIVE POLYMER THT type
- Ultra-miniaturized type for space critical applications
- Endurance: 105°C 2000 hours
- Large permissible ripple current
- No dry-out effect guarantees extremely long life



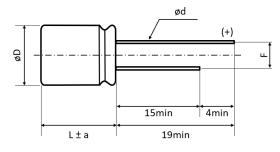




Items		Performance Characteristics			
Operating Temperature Range		-55 ~ +105°C			
Rated Voltage Range V _R		2.5 ~ 16 V DC			
Surge Voltage	Vs	$V_S = 1.15 \cdot V_R$			
Capacitance Range	C_R	270 ~ 1200μF			
Cap. Tolerance	ΔC	±20% (120Hz • 20°C)			
Leakage Current (20°C • V _R applied)	I _{LEAK}	Not to exceed the values shown in standard ratings After 2 minutes			
Dissipation Factor % (20°C • 120Hz)	tanδ	Not to exceed the values shown in standard ratings			
Equivalent Series Resistance (20°C • 100kHz)	ESR	Not to exceed the values shown in standard ratings			

Lifetime Test				
	Test	2 000 hours		
Endurance	$\triangle C/C_R$	Within ±20% of the initial value		
105°C	tanδ	Not to exceed 150% of the value specified		
$(V_R applied)$	ESR	Not to exceed 150% of the value specified		
	I _{Leak}	Less than the specified value		
	Test	1 000 hours		
Moisture Resistance	$\triangle C/C_R$	Within ±20% of the initial value		
stored at 60°C	tanδ	Not to exceed 150% of the value specified		
(RH 90 ~ 95%)	ESR	Not to exceed 150% of the value specified		
	I_{Leak}	Less than the specified value		

DIMENSIONS • All dimensions in mm



ø D	L	ØD+0.5max	а	F±0.5	Ød±0.05
6.3	8	6.3	1	2.5	0.5



STANDARD RATINGS

Part number shows tape version with straight leads

V _R (V)	C _R (μF)	ø D (mm)	L (mm)	I _{LEAK} (μΑ, 2min)	tanδ +20°C • 120Hz (%)	Max. ESR +20°C ■ 100kHz (mΩ)	I _R • Max. Ripple Current +105°C • 100kHz (mA rms)	CapXon Part Number
	560	6.3	8	280	8	7	5600	PE561M2R5E080PTC
2.5	820	6.3	8	410	8	7	5600	PE821M2R5E080PTC
	1200	6.3	8	600	10	7	5600	PE122M2R5E080PTC
4	560	6.3	8	448	8	7	5600	PE561M004E080PTC
	330	6.3	8	415	10	8	5000	PE331M6R3E080PTC
6.3	470	6.3	8	592	8	7	5600	PE471M6R3E080PTC
0.5	560	6.3	8	706	8	7	5600	PE561M6R3E080PTC
	680	6.3	8	857	8	7	5600	PE681M6R3E080PTC
16	270	6.3	8	864	8	15	4500	PE271M016E080PTC

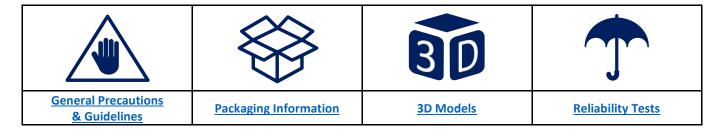
See "PACKAGING INFORMATION" for pin treatment options.

MULTIPLIER Kf for RIPPLE CURRENT vs. FREQUENCY

Frequency (Hz)	120 ≤ Freq. < 1k	1k ≤ Freq. < 10k	10k ≤ Freq. < 100k	100k ≤ Freq. < 300k
Coefficient K _f	0.05	0.3	0.7	1

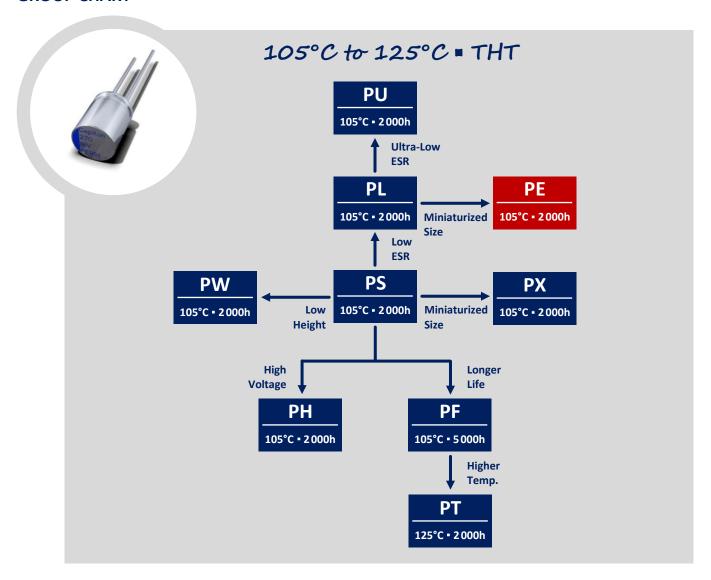
PRECAUTIONS, GUIDELINES AND PACKAGING INFORMATION

Unless otherwise agreed in individual specifications, all products are subject to our "General Precautions and Guidelines" as well as our "Packaging Information". Please refer to the following links in the table.





GROUP CHART



DISCLAIMER

All product related data (e.g. specification, statements and general information) are subject to change without any notice. It is necessary that the customer observes all product related technical / application information and handling instructions.

CapXon products are designed and manufactured according to severe quality and safety standards. Under no circumstance, CapXon warrants that any CapXon product is suitable for the purposes intended for your application, even CapXon knows the application. It is customer's duty and obligation to check and make sure that CapXon products are suitable for the purposes intended and select the correct and proper CapXon product. Customers are requested to perform a sufficient validation and reliability evaluation to assure needed safety level and reliability performance by suitable designs and to apply proper safeguards (e.g. redundancies, protective circuits).

Particular operating conditions (ambient temperature, ripple current, voltage, thermal resistance, etc.) as well as storage, production or assembly may affect the performance and the lifetime of the capacitor. Please consult CapXon for lifetime estimation, failure mode considerations or worst-case scenarios according to the product technology, product tolerances / deviations or change of the characteristics of the capacitor due to shipment, storage, handling, production and usage.

For aerospace or military application, life-saving, life-sustaining, safety critical applications or any application where failure may cause severe personal injury or death, please consult us before design-in the capacitor in your application.

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