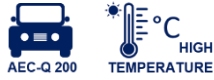


### AM SERIES • HIGH TEMPERATURE TYPE 150°C

#### KEY FEATURES



- HYBRID CONDUCTIVE POLYMER • THT type
- Endurance: 150°C • 1 000 hours
- Low ESR and high ripple current
- Superior electrical stability over application lifetime
- AEC-Q200 version available

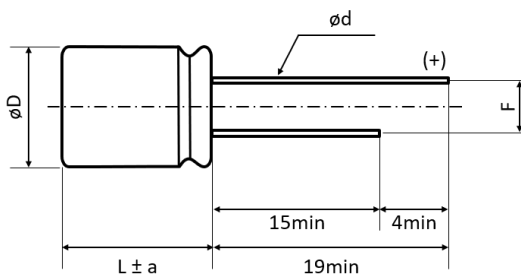


#### SPECIFICATIONS

Items		Performance Characteristics
Operating Temperature Range		-55 ~ +150°C
Rated Voltage Range	$V_R$	16 ~ 80V DC
Surge Voltage	$V_S$	( $V_R \leq 100V$ ): $V_S = 1.25 \cdot V_R$
Capacitance Range	$C_R$	8.2 ~ 560 $\mu$ F
Cap. Tolerance	$\Delta C$	$\pm 20\%$ (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)	$\tan\delta$	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		
Endurance 150°C ( $V_R$ & $I_R$ applied)	Test	<b>1 000 hours</b>
	$\Delta C/C_R$	Within $\pm 30\%$ of the initial value
	$\tan\delta$	Less than 200% of the specified value
	ESR	Less than 200% of the specified value
	$I_{Leak}$	Less than the specified value

#### DIMENSIONS • All dimensions in mm



$\phi D$	L	$\phi D \pm 0.5$	a	F $\pm 0.5$	$\phi d \pm 0.05$
8	9	8	1.5	3.5	0.6
8	11.5	8	1.5	3.5	0.6
10	10	10	1.5	5	0.6
10	12.5	10	1.5	5	0.8

STANDARD RATINGS

V <sub>R</sub> (V)	C <sub>R</sub> (μF)	∅ D (mm)	L (mm)	I <sub>LEAK</sub> (μA, 2min)	tanδ +20°C • 120Hz (%)	Max. ESR +20°C • 100kHz (mΩ)	I <sub>R</sub> - Max. Ripple Current +150°C • 100kHz (mA rms)	CapXon Part Number
16	270	8	9	43.2	16	25	770	AM271M016F090PTD <input type="checkbox"/>
	330	8	11.5	52.8	16	23	800	AM331M016F115PTD <input type="checkbox"/>
	470	10	10	75.2	16	20	880	AM471M016G100PTA <input type="checkbox"/>
	560	10	12.5	89.6	16	16	1010	AM561M016G125PTA <input type="checkbox"/>
25	150	8	9	37.5	16	27	750	AM151M025F090PTD <input type="checkbox"/>
	220	8	11.5	55.0	16	25	770	AM221M025F115PTD <input type="checkbox"/>
	270	10	10	67.5	16	22	850	AM271M025G100PTA <input type="checkbox"/>
	330	10	12.5	82.5	16	16	970	AM331M025G125PTA <input type="checkbox"/>
35	100	8	9	16.5	16	30	710	AM101M035F090PTD <input type="checkbox"/>
	150	8	11.5	35.0	16	27	730	AM151M035F115PTD <input type="checkbox"/>
	150	10	10	52.5	16	23	830	AM151M035G100PTA <input type="checkbox"/>
	220	10	12.5	77.0	16	18	950	AM221M035G125PTA <input type="checkbox"/>
40	56	8	9	22.4	16	30	650	AM560M040F090PTD <input type="checkbox"/>
	82	8	11.5	32.8	16	27	660	AM820M040F115PTD <input type="checkbox"/>
	100	10	10	40.0	16	25	720	AM101M040G100PTA <input type="checkbox"/>
	120	10	10	48.0	16	23	740	AM121M040G100PTA <input type="checkbox"/>
	180	10	12.5	48.0	16	20	850	AM181M040G125PTA <input type="checkbox"/>
50	33	8	9	16.5	16	35	550	AM330M050F090PTD <input type="checkbox"/>
	47	8	11.5	23.5	16	28	620	AM470M050F115PTD <input type="checkbox"/>
	56	10	10	28.0	16	28	660	AM560M050G100PTA <input type="checkbox"/>
	82	10	12.5	41.0	16	25	720	AM820M050G125PTA <input type="checkbox"/>
63	22	8	9	13.9	16	40	520	AM220M063F090PTD <input type="checkbox"/>
	27	8	11.5	17.0	16	35	540	AM270M063F115PTD <input type="checkbox"/>
	33	10	10	20.8	16	30	570	AM330M063G100PTA <input type="checkbox"/>
	47	10	10	29.6	16	30	570	AM470M063G100PTA <input type="checkbox"/>
	56	10	12.5	35.3	16	25	620	AM560M063G125PTA <input type="checkbox"/>
80	8.2	8	9	6.6	16	90	320	AM8R2M080F090PTD <input type="checkbox"/>
	12	10	10	9.6	16	70	440	AM120M080G100PTA <input type="checkbox"/>
	15	8	11.5	12.0	16	70	410	AM150M080F115PTD <input type="checkbox"/>
	15	10	10	12.0	16	70	440	AM150M080G100PTA <input type="checkbox"/>
	18	10	12.5	14.4	16	50	480	AM180M080G125PTA <input type="checkbox"/>

: Leave **blank** for Standard type                      : Enter **X** for AEC-Q200 type  
**Part number shows taped version with straight leads and Ammo Pack packaging.**  
**See "PACKAGING INFORMATION" for further lead treatment options.**

**MULTIPLIER  $K_f$  for RIPPLE CURRENT vs. FREQUENCY**

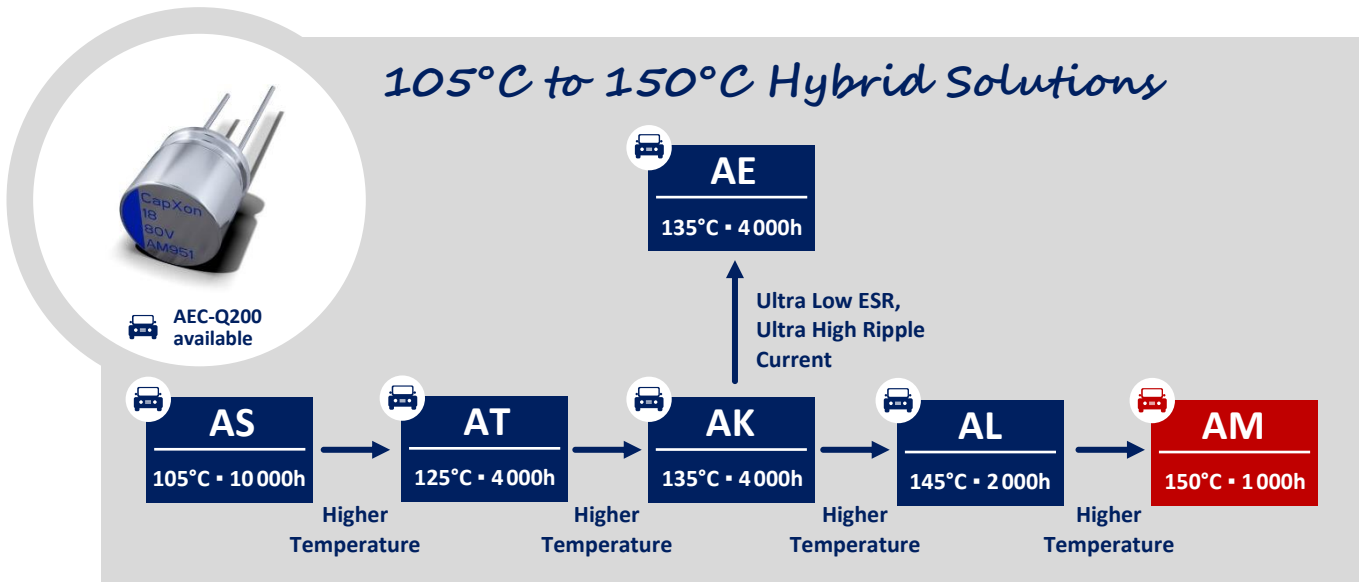
Frequency (Hz)	$100 \leq \text{Freq.} < 120$	$120 \leq \text{Freq.} < 200$	$200 \leq \text{Freq.} < 300$	$300 \leq \text{Freq.} < 500$
Coefficient $K_f$	0.10	0.10	0.10	0.15
Frequency (Hz)	$500 \leq \text{Freq.} < 1k$	$1k \leq \text{Freq.} < 2k$	$2k \leq \text{Freq.} < 3k$	$3k \leq \text{Freq.} < 5k$
Coefficient $K_f$	0.20	0.30	0.40	0.45
Frequency (Hz)	$5k \leq \text{Freq.} < 10k$	$10k \leq \text{Freq.} < 15k$	$15k \leq \text{Freq.} < 20k$	$20k \leq \text{Freq.} < 40k$
Coefficient $K_f$	0.50	0.60	0.65	0.70
Frequency (Hz)	$40k \leq \text{Freq.} < 50k$	$50k \leq \text{Freq.} < 100k$	$100k \leq \text{Freq.} < 500k$	$500k \leq \text{Freq.} < 1M$
Coefficient $K_f$	0.80	0.85	1.00	1.05

**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.

<a href="#">General Precautions &amp; Guidelines</a>	<a href="#">Packaging Information</a>	<a href="#">3D Models</a>	<a href="#">Reliability Tests</a>

**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.

Except for the written expressed warranties, CapXon does not impliedly, by assumption or whatever else, warrant, undertake, promise any other warranty or guaranty for any CapXon product.

For further information, please visit our website [www.capxongroup.com](http://www.capxongroup.com) or contact CapXon directly.