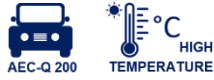


### AT SERIES ■ LONG LIFE AT 125°C UP TO 4 000 HOURS

#### KEY FEATURES



- HYBRID CONDUCTIVE POLYMER • THT type
- Endurance: 125°C • 2 000 up to 4 000 hours
- Low ESR and high ripple current
- Superior electrical stability over application lifetime
- AEC-Q200 version available

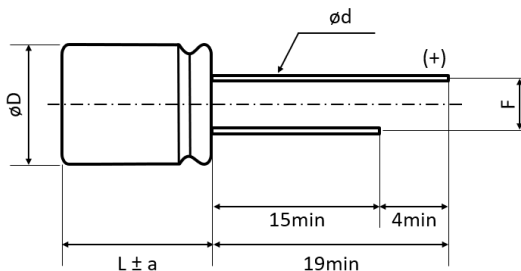


#### SPECIFICATIONS

Items		Performance Characteristics
Operating Temperature Range		-55 ~ +125°C
Rated Voltage Range	$V_R$	16 ~ 100V DC
Surge Voltage	$V_S$	( $V_R \leq 100V$ ): $V_S = 1.25 \cdot V_R$
Capacitance Range	$C_R$	8.2 ~ 1500 $\mu$ 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 125°C ( $V_R$ & $I_R$ applied)	Test	4 000 hours	$\geq \phi D 8$
		2 000 hours	$\leq \phi D 6.3$
	$\Delta C/C_R$	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 $\pm 0.5$	$\phi d \pm 0.05$
6.3	8	6.3	1	2.5	0.6
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	0.6
10	18	10	2	5	0.6

**STANDARD RATINGS**

$V_R$ (V)	$C_R$ ( $\mu$ F)	$\phi$ D (mm)	L (mm)	$I_{LEAK}$ ( $\mu$ A, 2min)	$\tan\delta$ +20°C • 120Hz (%)	Max. ESR +20°C • 100kHz (m $\Omega$ )	$I_R$ • Max. Ripple Current +125°C • 100kHz (mA rms)	CapXon Part Number
16	120	6.3	8	19.2	16	32	1440	AT121M016E080PTC ☐
	270	8	9	43.2	16	23	1970	AT271M016F090PTD ☐
	330	8	11.5	52.8	16	20	2340	AT331M016F115PTD ☐
	470	10	10	75.2	16	18	2620	AT471M016G100PTA ☐
	560	10	12.5	89.6	16	14	3030	AT561M016G125PTA ☐
	1500	10	18	240.0	16	12	4000	AT152M016G180PTA ☐
25	68	6.3	8	17.0	16	35	1380	AT680M025E080PTC ☐
	150	8	9	37.5	16	25	1880	AT151M025F090PTD ☐
	220	8	11.5	55.0	16	22	2230	AT221M025F115PTD ☐
	270	10	10	67.5	16	19	2500	AT271M025G100PTA ☐
	330	10	12.5	82.5	16	14	2890	AT331M025G125PTA ☐
	1000	10	18	250.0	16	12	4000	AT102M025G180PTA ☐
35	47	6.3	8	16.5	16	45	1280	AT470M035E080PTC ☐
	100	8	9	35.0	16	28	1780	AT101M035F090PTD ☐
	150	8	11.5	52.5	16	25	2100	AT151M035F115PTD ☐
	150	10	10	52.5	16	20	2440	AT151M035G100PTA ☐
	220	10	12.5	77.0	16	15	2800	AT221M035G125PTA ☐
	680	10	18	238.0	16	14	3700	AT681M035G180PTA ☐
40	27	6.3	8	10.8	16	48	1230	AT270M040E080PTC ☐
	56	8	9	22.4	16	30	1710	AT560M040F090PTD ☐
	82	8	11.5	32.8	16	27	2000	AT820M040F115PTD ☐
	100	10	10	40.0	16	21	2360	AT101M040G100PTA ☐
	120	10	10	48.0	16	20	2400	AT121M040G100PTA ☐
	180	10	12.5	72.0	16	18	2550	AT181M040G125PTA ☐
50	15	6.3	8	7.5	16	80	960	AT150M050E080PTC ☐
	33	8	9	16.5	16	35	1330	AT330M050F090PTD ☐
	47	8	11.5	23.5	16	30	1520	AT470M050F115PTD ☐
	56	10	10	28.0	16	30	1850	AT560M050G100PTA ☐
	82	10	12.5	41.0	16	25	2120	AT820M050G125PTA ☐
	220	10	18	110.0	16	15	3500	AT221M050G180PTA ☐
63	10	6.3	8	6.3	16	100	840	AT100M063E080PTC ☐
	22	8	9	13.9	16	40	1240	AT220M063F090PTD ☐
	27	8	11.5	17	16	35	1400	AT270M063F115PTD ☐
	33	10	10	20.8	16	35	1680	AT330M063G100PTA ☐
	47	10	10	29.6	16	35	1680	AT470M063G100PTA ☐
	56	10	12.5	35.3	16	30	1920	AT560M063G125PTA ☐
	150	10	18	94.5	16	18	3200	AT151M063G180PTA ☐
80	8.2	8	9	6.6	16	90	840	AT8R2M080F090PTD ☐
	15	8	11.5	12	16	70	1120	AT150M080F115PTD ☐
	12	10	10	9.6	16	70	1280	AT120M080G100PTA ☐
	15	10	10	12	16	70	1280	AT150M080G100PTA ☐
	18	10	12.5	14.4	16	60	1460	AT180M080G125PTA ☐

☐ see description at end of standard ratings

Part number shows taped version with straight leads and Ammo Pack packaging.

See "PACKAGING INFORMATION" for further lead treatment options.

