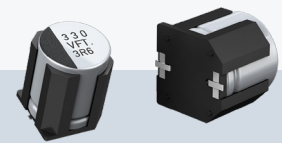
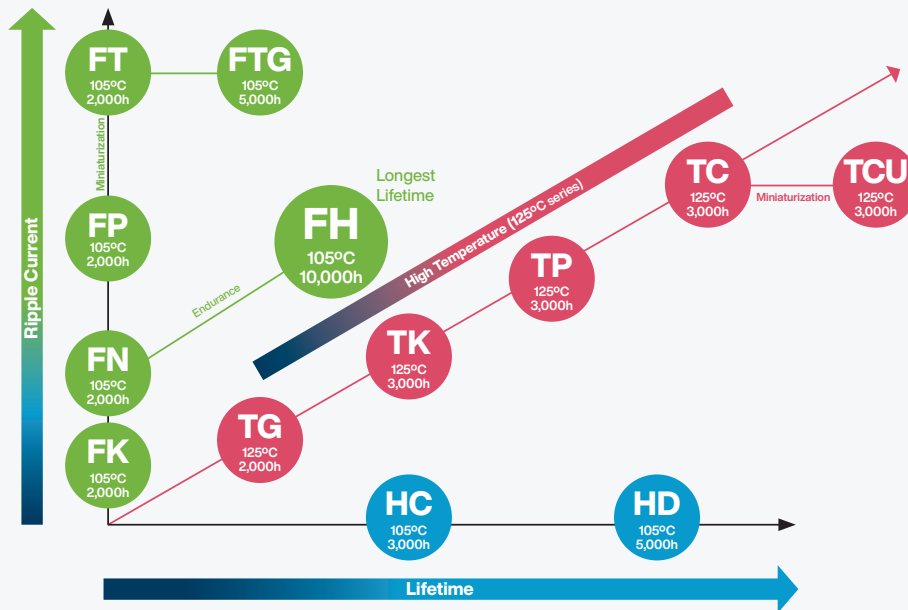


# Aluminium Electrolytic Capacitors

Panasonic Aluminium Electrolytic portfolio is focused on high ripple current (low ESR), high temperature and long lifetime, offered both in SMD and THT.

## SMD Electrolytic Capacitors

### SMD Electrolytic Capacitors series overview



### Anti-vibration features:

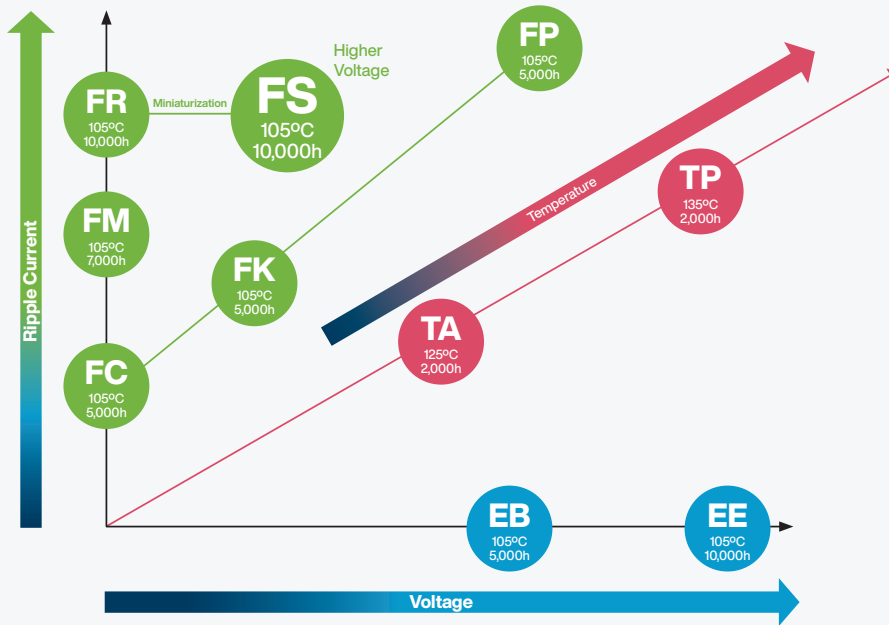
- Excellent anti-vibration performance withstands 30G
- Available for all SMD Lytic Capacitor series with  $\geq \varnothing 6\text{mm}$

### SMD type line-up

Series	High temperature guarantee	Rated voltage range (V)	Capacitance range ( $\mu\text{F}$ )	Size [ $\varnothing \times \text{L}$ ] (mm)	AEC-Q200	Features
TCU	125°C/3,000h	10 - 35	220 - 680	8x10.2 - 10x10.2	Compliant	Miniaturized (TP comparison) High temp. Reflow
TC	125°C/3,000h	10 - 35	47 - 470	6.3x7.7 - 10x10.2	Compliant	High ripple current (TP comparison) High temp. Reflow
TP	125°C/2,000 to 3,000h	10 - 35	47 - 470	6.3x7.7 - 10x10.2	Compliant	Low ESR (TK comparison) High temp. Reflow
	125°C/3,000 to 4,000h	25 - 80	390 - 3,300	16x16.5 - 18x21.5		
TK	125°C/3,000h	10 - 35	47 - 470	8x10.2 - 10x10.2	Compliant	Low ESR & Long lifetime (TG comparison) Low ESR & Long lifetime (TG comparison) High temp. Reflow Medium-size
	125°C/2,000h	10 - 100	47 - 4,700	12.5x13.5 - 18x16.5		
TG	125°C/1,000 to 2,000h	10 - 100	10 - 4,700	8x6.2 - 18x16.5	Compliant	125°C standard
FK	105°C/2,000 to 5,000h	6.3 - 100	3.3 - 6,800	4x5.8 - 18x16.5	Compliant	Low impedance & miniaturized
<b>NEW</b> FH	105°C/7,000h to 10,000h	6.3 - 100	10 - 680	6.3x7.7 - 10x10.2	Compliant	Long lifetime (FK comparison) High temp. reflow Halogen-free
<b>NEW</b> FN	105°C/2,000h	6.3 - 100	10 - 1,800	4x5.8 - 10x10.2	Compliant	High temp. reflow Larger capacitance in smaller case size
FT	105°C/2,000 to 5,000h	6.3 - 50	10 - 2,200	4x5.8 - 10x10.2	Compliant	Miniaturized (FK comparison) High temp. Reflow
FP	105°C/2,000h	6.3 - 50	10 - 1,800	4x5.8 - 10x10.2	Compliant	Low ESR (FK comparison) High temp. Reflow
HC	105°C/3,000 to 5,000h	6.3 - 50	1 - 1,000	4x5.8 - 10x10.2	Compliant	Long lifetime (HB comparison)
		6.3 - 100	1 - 1,000	4x5.8 - 10x10.2		
HD	105°C/5,000h	6.3 - 100	1 - 1,000	4x5.8 - 10x10.2	Compliant	Long lifetime (HC comparison)
		6.3 - 35	680 - 7,500	12.5x13.5 - 18x16.5		

## THT Electrolytic Capacitors

### THT Electrolytic Capacitors series overview



### THT type line-up

Series	High temperature guarantee	Rated voltage range (V)	Capacitance range (μF)	Size [øxL] (mm)	AEC-Q200	Features
FS-A	105°C/5,000h to 10,000h	6.3 - 100	27 - 10,000	5x11 - 16x25	-	Low impedance Miniaturization
FP-A	105°C/4,000h to 5,000h	25 - 35	510 - 2,000	10x16 - 12.5x25	Compliant	High ripple current Large capacitance
FR-A	105°C/5,000h to 10,000h	6.3 - 100	4.7 - 8,200	5x11 - 16x25	-	Low impedance
FM-A	105°C/4,000h to 7,000h	6.3 - 50	22 - 6,800	5x11 - 16x25	-	Low impedance
FK-A	105°C/4,000h to 5,000h	6.3 - 35	180 - 12,000	8x11.5 - 18x25	Compliant	Low impedance (10 to 30% less than FC series)
FC-A	105°C/3,000h to 5,000h	6.3 - 100	2.2 - 15,000	4x7 - 18x40	Compliant	Low impedance
EE-A	105°C/8,000h to 10,000h	160 - 450	10 - 330	10x20 - 18x40	-	High ripple current
EB-A	105°C/5,000h to 10,000h	10 - 450	2.2 - 3,300	5x11 - 18x31.5	-	Long lifetime
TP-A	135°C/1,000h to 2,000h 125°C/2,000h to 5,000h	25 - 35	100 - 5,100	8x16 - 18x31.5	Compliant	High ripple current (20% to 40% higher than TA series)
TA-A	125°C/2,000h	10 - 63	2.2 - 4,700	8x11.5 - 18x35.5	Compliant	Heat cycle: 1000 cycle Sleeve: Polyester

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For more information visit our website:  
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