

## Series Line-up

### Hybrid Conductive Polymer Type **EP-cap**

Classification	Series	Page	Features	Features					Category Temperature Range(°C)	Rated Voltage Range(V.DC)	Rated Capacitance Range(μF)	External Appearance	Marking Color
				High Cap.	Low ESR	Long Life	Solvent Proof	AEC-Q200					
Surface Mount Type	F V L	21	105°C, 125°C		●			●	-55 to +125	6.3 to 10	100 to 1000	—	Blue
	HVHZ/ H V H	22	105°C Long Life		●	●	●	●	-55 to +105	16 to 125	6.8 to 560	—	Blue
	HVPZ/ H V P	23	125°C		●			●	-55 to +125	16 to 125	6.8 to 560	—	Blue
	H V T	24	135°C		●			●	-55 to +135	25 to 63	10 to 330	—	Blue
	H V J	★	150°C		●			●	-55 to +150	25 to 63	15 to 68	—	Blue
	H V H	25	105°C High Capacitance	●	●	●	●	●	-55 to +105	25 to 100	10 to 470	—	Blue
	H V P F	26	125°C High Capacitance	●	●			●	-55 to +125	25 to 100	10 to 470	—	Blue
	H V P X	27	125°C High Ripple	●	●			●	-55 to +125	25 to 80	22 to 470	—	Blue
	H V T X	28	135°C High Ripple		●	●	●	●	-55 to +135	25 to 35	47 to 470	—	Blue
	UP GRADE H V H Y	29	105°C High Ripple		●	●	●	●	-55 to +105	25 to 35	47 to 470	—	Blue
	H V P Y	30	125°C High Ripple		●			●	-55 to +125	25 to 35	270 to 470	—	Blue
	H V T Y	31	135°C High Ripple		●	●	●	●	-55 to +135	25 to 35	270 to 470	—	Blue
	H V H C	32	105°C High Capacitance	●	●			●	-55 to +105	16 to 35	56 to 820	—	Blue
	UP GRADE H V P C	33	125°C High Capacitance	●	●			●	-55 to +125	16 to 35	33 to 820	—	Blue
	UP GRADE F V C	34	125°C, 135°C High Capacitance	●	●	●	●	●	-55 to +135	6.3 to 35	150 to 3900	—	Blue
	F V F P	35	125°C, 135°C High Ripple		●	●	●	●	-55 to +135	16	330 to 1000	—	Blue
	UP GRADE F V F	36	150°C Long Life, High Ripple		●	●	●	●	-55 to +150	25 to 80	22 to 680	—	Blue
	F V S	37	125°C, -16V Proof		●			●	-55 to +125	35	47 to 220	—	Blue
	Radial Lead Type	H E H	★	105°C		●	●	●	●	-55 to +105	50 to 100	10 to 82	—
H E H Z		★	105°C Long Life		●	●	●	●	-55 to +105	16 to 35	47 to 560	—	Blue
H E P Z		★	125°C		●			●	-55 to +125	16 to 35	47 to 560	—	Blue
H E H F		★	105°C High Capacitance	●	●	●	●	●	-55 to +105	25 to 100	10 to 470	—	Blue
H E P F		★	125°C High Capacitance	●	●			●	-55 to +125	25 to 100	10 to 470	—	Blue
H E P C		★	125°C High Capacitance	●	●			●	-55 to +125	16 to 35	100 to 820	—	Blue
UP GRADE UP GRADE F E C		38	125°C, 135°C High Capacitance	●	●	●	●	●	-55 to +135	6.3 to 35	220 to 3900	—	Blue
UP GRADE F E F	39	125°C, 135°C High Ripple		●	●	●	●	-55 to +135	25 to 80	22 to 680	—	Blue	

### Aluminum Electrolytic Type


Classification	Series	Page	Features	Features					Category Temperature Range(°C)	Rated Voltage Range(V.DC)	Rated Capacitance Range(μF)	External Appearance	Marking Color	
				Small & Thin type	Low Impedance	Long Life	Solvent Proof	AEC-Q200						
Surface Mount Type	CE-LD	41	4.5mm Height, Long Life	●		●	●	●	-40 to +105	6.3 to 50	10 to 100	—	Black	★2
	CE-FSS	42		●				●	-40 to +105	6.3 to 50	4.7 to 220	—	Black	
	CE-FS	43	105°C Standard					●	-40 to +105	160 to 400	2.2 to 82	—	Black	★2
		44					●	-55 to +105	6.3 to 63	2.2 to 12000	—	Black	★2	
							●	-40 to +105	100	4.7 to 330	—	Black		
	CE-AX	46	Low Impedance		●			●	-55 to +105	6.3 to 50	4.7 to 6800	—	Black	★2
	CE-ZX	48	Super Low ESR		●			●	-55 to +105	6.3 to 50	33 to 1800	—	Black	
	UP GRADE UP GRADE CE-ZC	49		●	●			●	-55 to +105	6.3 to 63	47 to 4700	—	Black	
	UP GRADE CE-LX	50	Low Impedance, Long Life		●	●	●	●	-55 to +105	6.3 to 100	4.7 to 12000	—	Black	★2
	CE-GA	52			●			●	-55 to +105	6.3 to 63	2.2 to 220	—	Black	
	CE-LS	53	Low Impedance, Long Life		●	●	●	●	-40 to +105	6.3 to 50	10 to 330	—	Black	
	CE-LH	54	Long Life					●	-40 to +105	6.3 to 50	2.2 to 220	—	Black	
		55						●	-40 to +105	160 to 400	2.2 to 120	—	Black	
	CE-LL	56	Low Impedance, Long Life		●	●	●	●	-40 to +105	6.3 to 50	10 to 1000	—	Black	
	CE-LF	57	Low Impedance, Long Life		●	●	●	●	-40 to +105	16 to 50	100 to 470	—	Black	
	CE-PC	58	125°C					●	-55 to +125	6.3 to 100	2.2 to 4700	—	Black	
	CE-PH	60			●			●	-40 to +125	16 to 63	10 to 3900	—	Black	
	CE-PS	62	125°C High Capacitance	●				●	-40 to +125	16 to 63	47 to 680	—	Black	
	CE-PF	63				●	●	●	-40 to +125	25 to 35	100 to 330	—	Black	
NEW CE-PL	64	125°C Long Life, High Capacitance	●		●	●	●	-40 to +125	25 to 35	330 to 470	—	Black		
CE-PB	65	125°C High Capacitance					●	-40 to +125	25 to 35	1300 to 3300	—	Black		
CE-TH	66	135°C			●	●	●	-40 to +135	16 to 50	22 to 1000	—	Black		
UP GRADE CE-JX	67	150°C					●	-40 to +150	25 to 50	33 to 470	—	Black		
CE-FN	68	105°C Bi-polar					●	-55 to +105	6.3 to 63	1.0 to 47	—	Black		

★2 Some of specified case sizes' parts will be discontinued. (4x4.5, 4x7, 5x4.5, 5x7, 10x7.7, 8x15, 8x20)

Please refer to <http://www.sunelec.co.jp> for the information where ★ marking is indicated.

## Series Line-up

### Aluminum Electrolytic Type

Classification	Series	Page	Features	Small & Thin type	Low Impedance	Long Life	Solvent Proof	Category Temperature Range(°C)	Rated Voltage Range(V.DC)	Rated Capacitance Range(μF)	External Appearance	Marking Color	
				●	●	●	●						
Radial Lead Type 	ME-SZ	69	7mm Height, Temperature of Wide Range	●			●	-55 to +105	6.3 to 50	10 to 330	Green	White	★2
	ME-SWG	70	7mm Height, Low ESR	●	●			-40 to +105	6.3 to 35	47 to 330	Black	Gold	★2
	ME-LS	71	Long Life, High Reliability		●	●	●	-40 to +105	6.3 to 50	10 to 1000	Black	Silver	★2
	ME-CZ	72	Small Standard, Temperature of Wide Range	●			●	-55 to +105	6.3 to 100	3.3 to 15000	Green	White	
	ME-CA	74	Small Standard, Low Impedance	●	●		●	-55 to +105	6.3 to 50	4.7 to 15000	Green	Silver	
	ME-CX	76	Small, Low Impedance	●	●		●	-55 to +105	6.3 to 35	47 to 15000	Green	Gold	★2
	ME-AX	78	Low Impedance, Long Life		●	●	●	-55 to +105 -40 to +105	6.3 to 63 100	4.7 to 12000 5.6 to 470	Green	Gold	★2
	ME-WX	80	Low Impedance, High Ripple		●			-40 to +105	6.3 to 50	22 to 6800	Green	Gold	★2
	ME-WA	82	Low Impedance, High Ripple, Long Life		●	●		-40 to +105	6.3 to 63	82 to 8200	Black	Gold	★2
	ME-WL	84	Low Impedance, Long Life	●	●	●		-40 to +105	6.3 to 100	4.7 to 470	Green	Silver	
	ME-WG	85	Super Low ESR		●			-40 to +105	6.3 to 25	220 to 3300	Green	Gold	★2
	ME-FX	86	Long Life			●	●	-40 to +105	10 to 100	4.7 to 470	Black	White	
	ME-FC	87	Guaranteed 105°C (Mid. & High Voltage)					-40 to +105 -25 to +105	160 to 400 450	0.47 to 220 22 to 47	Black	White	
	ME-FD	87	105°C, Low Profile (Mid. & High Voltage)					-40 to +105 -25 to +105	160 to 400 450	22 to 220 10 to 33	Black	White	
	ME-FH	88	105°C, Long Life (Mid. & High Voltage)			●		-40 to +105 -25 to +105	160 to 400 450	4.7 to 220 6.8 to 68	Black	White	
	ME-SWN	89	7mm Height, Bi-polar	●			●	-40 to +85	6.3 to 50	4.7 to 47	Black	White	★2
ME-HWN	90	Small, Standard, Bi-polar	●			●	-40 to +85	6.3 to 100	2.2 to 2200	Black	White		

★2 Some of specified case sizes' parts will be discontinued. (4x4.5, 4x7, 5x4.5, 5x7, 10x7.7, 8x15, 8x20)

Please contact us for AEC-Q200 requirements.

### Standardization Notice

For all new design, please place your orders with the suggested alternative series.

### Aluminum Electrolytic Type

#### Surface Mount Type

Series	Features	alternative series
CE-BD ★2,★3	4.5mm Height	CE-LD
CE-FD ★2	105°C 4.5mm Height	
CE-BSS ★1	Small, Standard	CE-FSS
CE-BS ★3	Standard	CE-FS
CE-FH	Long Life	CE-LX
CE-KX	Low Impedance	
CE-NP ★1	Bi-polar	CE-FN

#### Surface Mount Type

Series	Features	alternative series
ME-SZ ★2	7mm Height, Temperature of Wide Range	—
ME-UW ★1	5mm Height	
ME-UZ ★1	5mm Height, Temperature of Wide Range	
ME-SWG ★2	7mm Height, Low ESR	
ME-LS ★2	Long Life	
ME-UAX ★1	5mm Height, Low Impedance	
ME-SAX ★1	7mm Height, Low Impedance	ME-SZ,LS
ME-SWB	7mm Height	ME-SZ
ME-HC	Standard	ME-CZ
ME-FA	105°C Standard	
ME-HPC	Standard(Mid. & High Voltage)	ME-FC(Mid. & High Voltage)
ME-HPD	Long Profile(Mid. & High Voltage)	ME-FC(Mid. & High Voltage)
ME-SWN ★2	7mm Height, Bi-polar	—

★1 It will be discontinued.

★2 Some of specified case sizes' parts will be discontinued. (4x4.5, 4x7, 5x4.5, 5x7, 10x7.7, 8x15, 8x20)

★3 Some of specified rated voltade parts will be discontinued. (4V)