

Surface Mount Type

Series: **S** Type: **V**

Country of Origin

Japan
Malaysia
($\phi 4$, $\phi 5$, $\phi 6.3$, $\phi 8$, $\phi 10$)



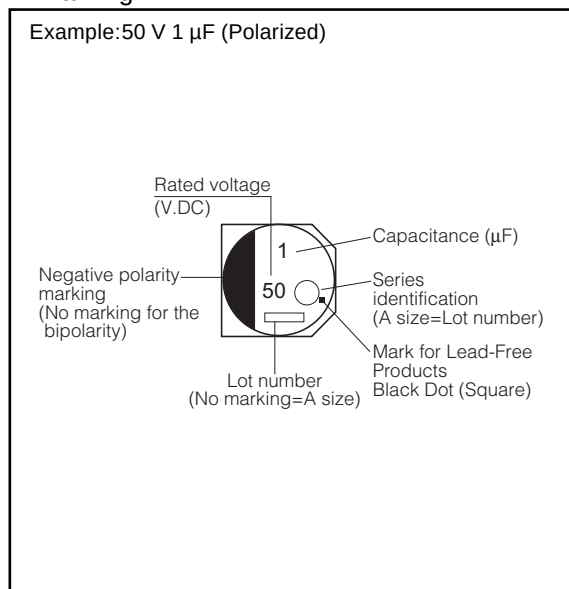
■ Features

- Endurance: 85 °C 2000 h
- 5.4 mm ($\leq \phi 6.3$) height,
- RoHS directive compliant

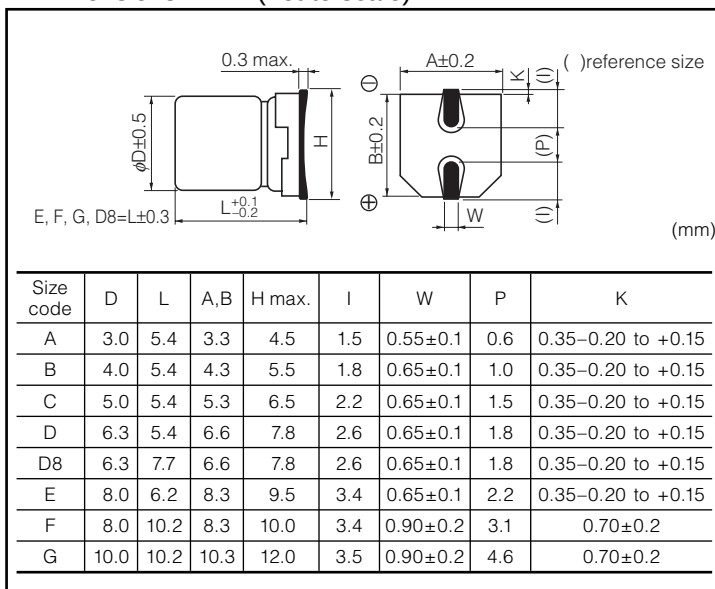
■ Specifications

Category Temp. Range	-40 to +85 °C										
Rated W.V. Range	4 to 100 V.DC										
Nominal Cap. Range	0.1 to 1500 µF										
Capacitance Tolerance	±20 % (120 Hz/+20 °C)										
DC Leakage Current	I ≤ 0.01 CV or 3 (µA) (Bi-Polar I ≤ 0.02 CV or 6 (µA) after 2 minutes (Whichever is greater)										
tan δ	Please see the attached standard products list										
Characteristics at Low Temperature	W.V. (V)	4	6.3	10	16	25	35	50	63	100	(Impedance ratio at 120 Hz)
	-25 / +20 °C	7	4	3	2	2	2	2	3	3	
	-40 / +20 °C	15	8	6	4	4	3	3	4	4	
Endurance	After applying rated working voltage for 2000 heures at +85±2 °C and then being stabilized at +20 °C, Capacitors shall meet the following limits.										
	Capacitance change	±20 % of inisial measured value									
		Size code		Rated W.V.		Cap. change		High tempature Lead-Free reflow Products : ø6.3×7.7 : ±30 %, ≤miniature ø6.3 : ±30 %			
		A(ø3)		4 to 50 W.V		±30 %					
		A(ø3) to D8(ø6.3)		4 W.V							
		≤D(ø6.3) Miniature		6.3 W.V		±20 %					
	≥10 W.V										
	tan δ	≤200 % initial specified value									
DC leakage current	≤initial specified value										
Shelf Life	After storage for 1000 hours at +85±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)										
Resistance to Soldering Heat	After reflow soldering and then being stabilized at +20°C, capacitor shall meet the following limits.										
	Capacitance change	±10% of initial measured value									
	tan δ	≤initial specified value									
	DC leakage current	≤initial specified value									

■ Marking



■ Dimensions in mm(not to scale)



■ Case size

W.V.(V) Cap. (μF)	4 (0G)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	100 (2A)
	Polarized	Polarized	Bi-polar	Polarized	Bi-polar	Polarized	Bi-polar	Polarized	Bi-polar	Polarized	Bi-polar	Polarized	Bi-polar	Polarized	Polarized
0.1												A, B			
0.22												A, B	B		
0.33												A, B	B		
0.47												A, B	B		
1.0												A, B	B		
2.2										A	B	A, B	C		
3.3								B	A	A		B	C		E
4.7						B	A,B	C	C	B	C	C(B)	D		F(E)
10				B	A,B	C	C(B)	D	C(B)	D	D(C)				F(E)
22	A	B(A)	C	(B)	C(B)	D	D(C)		D(C)		E(D)			F(E)	G(F)
33	B	(B)		C(B)	D	(C)	D(C)		E(D)		F(E), D8			F	G
47	B	C(B)	D	(C)	D(C)		(D)		E(D)		G(F), D8			G(F)	
100	C	D(C)		D(C)	E(D)		F(E), D8		G(F), D8		G(F)			G	
220	D	(D)		E, D8	F, D8		G(F)		G(F)		G				
330	(D)	E, D8		F	G(F)		G(F)		G						
470	D8	F		G(F)	G(F)		G								
1000		G(F)		D											
1500		G													

● High temperature Lead-Free reflow Products

W.V.(V) Cap. (μF)	6.3	10	16	25	35	50
0.1 to 0.47						B
1						B
2.2						B
3.3						B
4.7				B	B	C (B)
10			B	C (B)	C (B)	D (C)
22	B	(B)	C (B)	D (C)	D (C)	E (D)
33	(B)	C (B)	(C)	D (C)	E (D)	D8 F(E)
47	C	(C)	D (C)	(D)	E (D)	D8 G(F)
100	D (C)	D(C)	E (D)	D8 F(E)	D8 G(F)	G(F)
220		D8 E	D8 F	G(F)	G(F)	(G)
330	D8 E	F	G(F)	G(F)	(G)	
470	F	G(F)	G(F)	(G)		
1000	G	(G)				
1500	(G)					

()Shows miniaturized size
suffix : U,W,Y

■ Standard Products

Endurance : 85 °C 2000 h

W.V.	Cap. (±20 %)	Case size			Specification			Part No. (RoHS:compliant)	Reflow	Min. Packaging Q'ty
		Dia.	Length	Size Code	Ripple Current (120 Hz) (+85 °C)	$\tan \delta$ (120 Hz) (+20 °C)	Endurance			Taping
(V)	(μF)	(mm)	(mm)		(mA)		(hours)			(pcs.)
4	22	3	5.4	A	19	0.37	1000	EEE0GS220SR	(1)	2000
	33	4	5.4	B	26	0.35	1000	EEE0GA330SR	(1)	2000
	47	4	5.4	B	34	0.35	1000	EEE0GA470SR	(1)	2000
	100	5	5.4	C	61	0.35	1000	EEE0GA101SR	(1)	1000
	220	6.3	5.4	D	82	0.35	1000	EEE0GA221SP	(1)	1000
	330	6.3	5.4	D	80	0.50	1000	EEE0GA331WP	(1)	1000
	470	6.3	7.7	D8	200	0.35	1000	EEE0GA471XP	(1)	900
6.3	22	3	5.4	A	20	0.35	1000	EEE0JS220WR	(1)	2000
		4	5.4	B	29	0.26	2000	EEE0JA220SR	(1)	2000
	33	4	5.4	B	22	0.35	1000	EEE0JA330WR	(1)	2000
		4	5.4	B	36	0.35	1000	EEE0JA470WR	(1)	2000
	47	5	5.4	C	46	0.26	2000	EEE0JA470SR	(1)	1000
		5	5.4	C	47	0.35	1000	EEE0JA101WR	(1)	1000
	100	6.3	5.4	D	71	0.26	2000	EEE0JA101SP	(1)	1000
		6.3	5.4	D	74	0.35	1000	EEE0JA221WP	(1)	1000
	330	6.3	7.7	D8	188	0.26	2000	EEE0JA331XP	(1)	900
		8	6.2	E	300	0.35	2000	EEE0JA331P	(2)	1000
	470	8	10.2	F	380	0.35	2000	EEE0JA471P	(2)	500
		8	10.2	F	500	0.35	2000	EEE0JA102UP	(2)	500
10	1000	10	10.2	G	700	0.35	2000	EEE0JA102P	(2)	500
		10	10.2	G	750	0.35	2000	EEE0JA152P	(2)	500
	22	4	5.4	B	28	0.30	1000	EEE1AA220WR	(1)	2000
	33	4	5.4	B	29	0.30	1000	EEE1AA330WR	(1)	2000
		5	5.4	C	43	0.20	2000	EEE1AA330SR	(1)	1000
	47	5	5.4	C	43	0.30	1000	EEE1AA470WR	(1)	1000
		5	5.4	C	50	0.30	1000	EEE1AA101WR	(1)	1000
	100	6.3	5.4	D	70	0.26	2000	EEE1AA101SP	(1)	1000
		6.3	7.7	D8	173	0.20	2000	EEE1AA221XP	(1)	900
	220	8	6.2	E	250	0.26	2000	EEE1AA221P	(2)	1000
		8	10.2	F	390	0.26	2000	EEE1AA331P	(2)	500
	470	8	10.2	F	390	0.26	2000	EEE1AA471UP	(2)	500
		10	10.2	G	400	0.26	2000	EEE1AA471P	(2)	500
16	1000	10	10.2	G	580	0.26	2000	EEE1AA102P	(2)	500
		10	10.2	G	580	0.26	2000	EEE1AA102P	(2)	500
	10	3	5.4	A	20	0.18	1000	EEE1CS100SR	(1)	2000
		4	5.4	B	28	0.16	2000	EEE1CA100SR	(1)	2000
	22	4	5.4	B	28	0.26	1000	EEE1CA220WR	(1)	2000
		5	5.4	C	39	0.16	2000	EEE1CA220SR	(1)	1000
	33	5	5.4	C	35	0.26	1000	EEE1CA330WR	(1)	1000
		5	5.4	C	39	0.26	1000	EEE1CA470WR	(1)	1000
	47	6.3	5.4	D	70	0.16	2000	EEE1CA470SP	(1)	1000
		6.3	5.4	D	70	0.26	1000	EEE1CA101WP	(1)	1000
	100	8	6.2	E	200	0.20	2000	EEE1CA101P	(2)	1000
		6.3	7.7	D8	162	0.16	2000	EEE1CA221XP	(1)	900
	220	8	10.2	F	280	0.20	2000	EEE1CA221P	(2)	500

The taping dimensions are explained on p.195 of our Catalog.
Please use it as a reference guide.
Reflow Profile(Fig-1 to Fig-6) listed on p.193 of our Catalog.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Standard Products

Endurance : 85 °C 2000 h

W.V. (V)	Cap. (±20 %) (μF)	Case size			Specification			Part No. (RoHS:compliant)	Reflow	Min. Packaging Q'ty
		Dia. (mm)	Length (mm)	Size Code	Ripple Current (120 Hz) (+85 °C) (mA)	$\tan \delta$ (120 Hz) (+20 °C) (hours)	Endurance (hours)			Taping (pcs.)
16	330	8	10.2	F	320	0.20	2000	EEE1CA331UP	(2)	500
		10	10.2	G	380	0.20	2000	EEE1CA331P	(2)	500
	470	8	10.2	F	350	0.20	2000	EEE1CA471UP	(2)	500
		10	10.2	G	420	0.20	2000	EEE1CA471P	(2)	500
25	4.7	3	5.4	A	12	0.16	1000	EEE1ES4R7SR	(1)	2000
		4	5.4	B	22	0.14	2000	EEE1EA4R7SR	(1)	2000
	10	4	5.4	B	22	0.20	1000	EEE1EA100WR	(1)	2000
		5	5.4	C	28	0.14	2000	EEE1EA100SR	(1)	1000
	22	5	5.4	C	35	0.20	1000	EEE1EA220WR	(1)	1000
		6.3	5.4	D	55	0.14	2000	EEE1EA220SP	(1)	1000
	33	5	5.4	C	42	0.20	1000	EEE1EA330WR	(1)	1000
		6.3	5.4	D	65	0.14	2000	EEE1EA330SP	(1)	1000
	47	6.3	5.4	D	70	0.20	1000	EEE1EA470WP	(1)	1000
	100	6.3	7.7	D8	143	0.14	2000	EEE1EA101XP	(1)	900
		8	6.2	E	91	0.16	2000	EEE1EA101UP	(2)	1000
		8	10.2	F	180	0.16	2000	EEE1EA101P	(2)	500
	220	8	10.2	F	230	0.16	2000	EEE1EA221UP	(2)	500
		10	10.2	G	310	0.16	2000	EEE1EA221P	(2)	500
	330	8	10.2	F	270	0.16	2000	EEE1EA331UP	(2)	500
		10	10.2	G	340	0.16	2000	EEE1EA331P	(2)	500
	470	10	10.2	G	380	0.16	2000	EEE1EA471P	(2)	500
35	2.2	3	5.4	A	8	0.14	1000	EEE1VS2R2SR	(1)	2000
	3.3	3	5.4	A	10	0.14	1000	EEE1VS3R3SR	(1)	2000
	4.7	4	5.4	B	22	0.12	2000	EEE1VA4R7SR	(1)	2000
	10	4	5.4	B	22	0.16	1000	EEE1VA100WR	(1)	2000
		5	5.4	C	30	0.12	2000	EEE1VA100SR	(1)	1000
	22	5	5.4	C	36	0.16	1000	EEE1VA220WR	(1)	1000
		6.3	5.4	D	60	0.12	2000	EEE1VA220SP	(1)	1000
	33	6.3	5.4	D	60	0.16	1000	EEE1VA330WP	(1)	1000
		8	6.2	E	130	0.14	2000	EEE1VA330P	(2)	1000
	47	6.3	5.4	D	70	0.16	1000	EEE1VA470WP	(1)	1000
		8	6.2	E	165	0.14	2000	EEE1VA470P	(2)	1000
	100	6.3	7.7	D8	132	0.12	2000	EEE1VA101XP	(1)	900
		8	10.2	F	140	0.14	2000	EEE1VA101UP	(2)	500
		10	10.2	G	210	0.14	2000	EEE1VA101P	(2)	500
	220	8	10.2	F	200	0.14	2000	EEE1VA221UP	(2)	500
		10	10.2	G	310	0.14	2000	EEE1VA221P	(2)	500
	330	10	10.2	G	350	0.14	2000	EEE1VA331P	(2)	500
50	0.1	3	5.4	A	1	0.14	1000	EEE1HS0R1SR	(1)	2000
		4	5.4	B	1	0.12	2000	EEE1HA0R1SR	(1)	2000
	0.22	3	5.4	A	2	0.14	1000	EEE1HSR22SR	(1)	2000
		4	5.4	B	2	0.12	2000	EEE1HAR22SR	(1)	2000
	0.33	3	5.4	A	3	0.14	1000	EEE1HSR33SR	(1)	2000
		4	5.4	B	3	0.12	2000	EEE1HAR33SR	(1)	2000

The taping dimensions are explained on p.195 of our Catalog.
Please use it as a reference guide.
Reflow Profile(Fig-1 to Fig-6) listed on p.193 of our Catalog.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Standard Products

Endurance : 85 °C 2000 h

W.V. (V)	Cap. (±20 %) (μF)	Case size			Specification			Part No. (RoHS:compliant)	Reflow	Min. Packaging Q'ty
		Dia. (mm)	Length (mm)	Size Code	Ripple Current (120 Hz) (+85 °C) (mA)	$\tan \delta$ (120 Hz) (+20 °C)	Endurance (hours)			Taping (pcs.)
50	0.47	3	5.4	A	5	0.14	1000	EEE1HSR47SR	(1)	2000
		4	5.4	B	5	0.12	2000	EEE1HAR47SR	(1)	2000
	1	3	5.4	A	8	0.14	1000	EEE1HS010SR	(1)	2000
		4	5.4	B	10	0.12	2000	EEE1HA010SR	(1)	2000
	2.2	3	5.4	A	8	0.14	1000	EEE1HS2R2SR	(1)	2000
		4	5.4	B	16	0.12	2000	EEE1HA2R2SR	(1)	2000
	3.3	4	5.4	B	16	0.12	2000	EEE1HA3R3SR	(1)	2000
	4.7	4	5.4	B	18	0.14	1000	EEE1HA4R7WR	(1)	2000
		5	5.4	C	23	0.12	2000	EEE1HA4R7SR	(1)	1000
	10	5	5.4	C	27	0.14	1000	EEE1HA100WR	(1)	1000
		6.3	5.4	D	35	0.12	2000	EEE1HA100SP	(1)	1000
	22	6.3	5.4	D	40	0.14	1000	EEE1HA220WP	(1)	1000
		8	6.2	E	120	0.12	2000	EEE1HA220P	(2)	1000
	33	6.3	7.7	D8	85	0.12	2000	EEE1HA330XP	(1)	900
		8	6.2	E	65	0.12	2000	EEE1HA330UP	(2)	1000
		8	10.2	F	110	0.12	2000	EEE1HA330P	(2)	500
	47	6.3	7.7	D8	105	0.12	2000	EEE1HA470XP	(1)	900
		8	10.2	F	110	0.12	2000	EEE1HA470UP	(2)	500
		10	10.2	G	130	0.12	2000	EEE1HA470P	(2)	500
	100	8	10.2	F	200	0.12	2000	EEE1HA101UP	(2)	500
		10	10.2	G	250	0.12	2000	EEE1HA101P	(2)	500
	220	10	10.2	G	300	0.12	2000	EEE1HA221P	(2)	500
63	22	8	6.2	E	40	0.18	2000	EEE1JA220UP	(2)	1000
		8	10.2	F	40	0.18	2000	EEE1JA220P	(2)	500
	33	8	10.2	F	45	0.18	2000	EEE1JA330P	(2)	500
	47	8	10.2	F	45	0.18	2000	EEE1JA470UP	(2)	500
		10	10.2	G	45	0.18	2000	EEE1JA470P	(2)	500
	100	10	10.2	G	60	0.18	2000	EEE1JA101P	(2)	500
100	3.3	8	6.2	E	50	0.18	2000	EEE2AA3R3P	(2)	1000
		8	6.2	E	50	0.18	2000	EEE2AA4R7UP	(2)	1000
	4.7	8	10.2	F	80	0.18	2000	EEE2AA4R7P	(2)	500
		8	6.2	E	50	0.18	2000	EEE2AA100UP	(2)	1000
	10	8	10.2	F	85	0.18	2000	EEE2AA100P	(2)	500
		10	10.2	G	85	0.18	2000	EEE2AA220UP	(2)	500
		10	10.2	G	85	0.18	2000	EEE2AA220P	(2)	500
	33	10	10.2	G	90	0.18	2000	EEE2AA330P	(2)	500

The taping dimensions are explained on p.195 of our Catalog.
Please use it as a reference guide.
Reflow Profile(Fig-1 to Fig-6) listed on p.193 of our Catalog.

■ Standard Products (Bi-polar)

Endurance : 85 °C 2000 h

W.V.	Cap. (±20 %)	Case size			Specification			Part No. (RoHS:compliant)	Reflow	Min. Packaging Q'ty
		Dia.	Length	Size Code	Ripple Current (120 Hz) (+85 °C) (mA)	$\tan \delta$ (120 Hz) (+20 °C)	Endurance (hours)			Taping (pcs.)
(V)	(μF)	(mm)	(mm)							
6.3	22	5	5.4	C	29	0.52	2000	EEE0JA220NR	(1)	1000
	47	6.3	5.4	D	46	0.52	2000	EEE0JA470NP	(1)	1000
10	10	4	5.4	B	25	0.40	2000	EEE1AA100NR	(1)	2000
	33	6.3	5.4	D	43	0.40	2000	EEE1AA330NP	(1)	1000
16	4.7	4	5.4	B	20	0.32	2000	EEE1CA4R7NR	(1)	2000
	10	5	5.4	C	25	0.32	2000	EEE1CA100NR	(1)	1000
	22	6.3	5.4	D	39	0.32	2000	EEE1CA220NP	(1)	1000
25	3.3	4	5.4	B	12	0.28	2000	EEE1EA3R3NR	(1)	2000
	4.7	5	5.4	C	21	0.28	2000	EEE1EA4R7NR	(1)	1000
	10	6.3	5.4	D	28	0.28	2000	EEE1EA100NP	(1)	1000
35	2.2	4	5.4	B	12	0.24	2000	EEE1VA2R2NR	(1)	2000
	4.7	5	5.4	C	22	0.24	2000	EEE1VA4R7NR	(1)	1000
	10	6.3	5.4	D	30	0.24	2000	EEE1VA100NP	(1)	1000
50	0.22	4	5.4	B	2	0.24	2000	EEE1HAR22NR	(1)	2000
	0.33	4	5.4	B	3	0.24	2000	EEE1HAR33NR	(1)	2000
	0.47	4	5.4	B	5	0.24	2000	EEE1HAR47NR	(1)	2000
	1	4	5.4	B	10	0.24	2000	EEE1HA010NR	(1)	2000
	2.2	5	5.4	C	16	0.24	2000	EEE1HA2R2NR	(1)	1000
	3.3	5	5.4	C	21	0.24	2000	EEENZ1H3R3R	(1)	1000
	4.7	6.3	5.4	D	31	0.24	2000	EEE1HA4R7NP	(1)	1000

The taping dimensions are explained on p.195 of our Catalog.

Please use it as a reference guide.

Reflow Profile(Fig-1 to Fig-6) listed on p.193 of our Catalog.

■ High temperature Lead-Free reflow Products

Endurance : 85 °C 2000 h

W.V. (V)	Cap. (±20 %) (μF)	Case size			Specification		Part No. (RoHS:compliant)	Reflow	Min. Packaging Q'ty
		Dia. (mm)	Length (mm)	Size Code	Ripple Current (120 Hz) (+85 °C) (mA)	$\tan \delta$ (120 Hz) (+20 °C)			Taping (pcs.)
6.3	22	4	5.4	B	29	0.26	EEE0JA220AR	(5)	2000
	33	4	5.4	B	22	0.35	EEE0JA330WAR	(5)	2000
	47	5	5.4	C	46	0.26	EEE0JA470AR	(5)	1000
	100	5	5.4	C	47	0.40	EEE0JA101WAR	(5)	1000
		6.3	5.4	D	71	0.26	EEE0JA101AP	(5)	1000
	330	6.3	7.7	D8	188	0.26	EEE0JA331XAP	(5)	900
		8	6.2	E	300	0.35	EEE0JA331AP	(6)	1000
	470	8	10.2	F	380	0.35	EEE0JA471AP	(6)	500
	1000	10	10.2	G	700	0.35	EEE0JA102AP	(6)	500
1500	10	10.2	G	750	0.50	EEE0JA152UAP	(6)	500	
10	22	4	5.4	B	28	0.30	EEE1AA220WAR	(5)	2000
	33	4	5.4	B	29	0.30	EEE1AA330WAR	(5)	2000
		5	5.4	C	43	0.20	EEE1AA330AR	(5)	1000
	47	5.0	5.4	C	47	0.30	EEE1AA470WAR	(5)	1000
	100	5	5.4	C	50	0.30	EEE1AA101WAR	(5)	1000
		6.3	5.4	D	70	0.26	EEE1AA101AP	(5)	1000
	220	6.3	7.7	D8	173	0.20	EEE1AA221XAP	(5)	900
		8	6.2	E	250	0.26	EEE1AA221AP	(6)	1000
	330	8	10.2	F	390	0.26	EEE1AA331AP	(6)	500
	470	8	10.2	F	390	0.26	EEE1AA471UAP	(6)	500
10		10.2	G	400	0.26	EEE1AA471AP	(6)	500	
1000	10	10.2	G	580	0.35	EEE1AA102UAP	(6)	500	
16	10	4	5.4	B	28	0.16	EEE1CA100AR	(5)	2000
	22	4	5.4	B	28	0.26	EEE1CA220WAR	(5)	2000
		5	5.4	C	39	0.16	EEE1CA220AR	(5)	1000
	33	5.0	5.4	C	35	0.26	EEE1CA330WAR	(5)	1000
	47	5	5.4	C	39	0.26	EEE1CA470WAR	(5)	1000
		6.3	5.4	D	70	0.16	EEE1CA470AP	(5)	1000
	100	6.3	5.4	D	70	0.26	EEE1CA101WAP	(5)	1000
		8	6.2	E	200	0.20	EEE1CA101AP	(6)	1000
	220	6.3	7.7	D8	162	0.20	EEE1CA221XAP	(5)	900
		8	10.2	F	280	0.20	EEE1CA221UAP	(6)	500
	330	8	10.2	F	320	0.20	EEE1CA331UAP	(6)	500
		10	10.2	G	380	0.20	EEE1CA331AP	(6)	500
470	8	10.2	F	350	0.26	EEE1CA471UAP	(6)	500	
	10	10.2	G	420	0.20	EEE1CA471AP	(6)	500	
25	4.7	4	5.4	B	22	0.14	EEE1EA4R7AR	(5)	2000
	10	4	5.4	B	22	0.20	EEE1EA100WAR	(5)	2000
		5	5.4	C	28	0.14	EEE1EA100AR	(5)	1000
	22	5	5.4	C	35	0.20	EEE1EA220WAR	(5)	1000
		6.3	5.4	D	55	0.14	EEE1EA220AP	(5)	1000
	33	5	5.4	C	42	0.20	EEE1EA330WAR	(5)	1000
		6.3	5.4	D	65	0.14	EEE1EA330AP	(5)	1000
	47	6.3	5.4	D	70	0.20	EEE1EA470WAP	(5)	1000
	100	8	6.2	E	91	0.16	EEE1EA101UAP	(6)	1000
		6.3	7.7	D8	143	0.14	EEE1EA101XAP	(5)	900
		8	10.2	F	180	0.16	EEE1EA101AP	(6)	500
	220	8	10.2	F	230	0.16	EEE1EA221UAP	(6)	500
		10	10.2	G	310	0.16	EEE1EA221AP	(6)	500
	330	8	10.2	F	270	0.20	EEE1EA331UAP	(6)	500
10		10.2	G	340	0.16	EEE1EA331AP	(6)	500	
470	10	10.2	G	380	0.25	EEE1EA471UAP	(6)	500	

The taping dimensions are explained on p.195 of our Catalog.

Please use it as a reference guide.

Reflow Profile(Fig-1 to Fig-6) listed on p.193 of our Catalog.

■ High temperature Lead-Free reflow Products

Endurance : 85 °C 2000 h

W.V. (V)	Cap. (±20 %) (μF)	Case size			Specification		Part No. (RoHS:compliant)	Reflow	Min. Packaging Q'ty
		Dia. (mm)	Length (mm)	Size Code	Ripple Current (120 Hz) (+85 °C) (mA)	tan δ (120 Hz) (+20 °C)			Taping (pcs.)
35	4.7	4	5.4	B	22	0.12	EEE1VA4R7AR	(5)	2000
	10	4	5.4	B	22	0.16	EEE1VA100WAR	(5)	2000
		5	5.4	C	30	0.12	EEE1VA100AR	(5)	1000
	22	5	5.4	C	36	0.16	EEE1VA220WAR	(5)	1000
		6.3	5.4	D	60	0.12	EEE1VA220AP	(5)	1000
	33	6.3	5.4	D	60	0.16	EEE1VA330WAP	(5)	1000
		8	6.2	E	130	0.14	EEE1VA330AP	(6)	1000
	47	6.3	5.4	D	70	0.16	EEE1VA470WAP	(5)	1000
		8	6.2	E	165	0.14	EEE1VA470AP	(6)	1000
	100	6.3	7.7	D8	132	0.12	EEE1VA101XAP	(5)	900
		8	10.2	F	140	0.14	EEE1VA101UAP	(6)	500
		10	10.2	G	210	0.14	EEE1VA101AP	(6)	500
	220	8	10.2	F	200	0.14	EEE1VA221UAP	(6)	500
		10	10.2	G	310	0.14	EEE1VA221AP	(6)	500
	330	10	10.2	G	350	0.30	EEE1VA331UAP	(6)	500
50	0.1	4	5.4	B	1	0.12	EEE1HAR10AR	(5)	2000
	0.22	4	5.4	B	2	0.12	EEE1HAR22AR	(5)	2000
	0.33	4	5.4	B	3	0.12	EEE1HAR33AR	(5)	2000
	0.47	4	5.4	B	5	0.12	EEE1HAR47AR	(5)	2000
	1	4	5.4	B	10	0.12	EEE1HA1R0AR	(5)	2000
	2.2	4	5.4	B	16	0.12	EEE1HA2R2AR	(5)	2000
	3.3	4	5.4	B	16	0.12	EEE1HA3R3AR	(5)	2000
	4.7	4	5.4	B	18	0.14	EEE1HA4R7WAR	(5)	2000
		5	5.4	C	23	0.12	EEE1HA4R7AR	(5)	1000
	10	5	5.4	C	27	0.14	EEE1HA100WAR	(5)	1000
		6.3	5.4	D	35	0.12	EEE1HA100AP	(5)	1000
	22	6.3	5.4	D	40	0.14	EEE1HA220WAP	(5)	1000
		8	6.2	E	120	0.12	EEE1HA220AP	(6)	1000
	33	8	6.2	E	65	0.12	EEE1HA330UAP	(6)	1000
		6.3	7.7	D8	65	0.12	EEE1HA330XAP	(5)	900
		8	10.2	F	110	0.12	EEE1HA330AP	(6)	500
	47	6.3	7.7	D8	105	0.12	EEE1HA470XAP	(5)	900
		8	10.2	F	110	0.12	EEE1HA470UAP	(6)	500
		10	10.2	G	130	0.12	EEE1HA470AP	(6)	500
	100	8	10.2	F	200	0.12	EEE1HA101UAP	(6)	500
		10	10.2	G	250	0.12	EEE1HA101AP	(6)	500
	220	10	10.2	G	300	0.12	EEE1HA221UAP	(6)	500

The taping dimensions are explained on p.195 of our Catalog.
Please use it as a reference guide.
Reflow Profile(Fig-1 to Fig-6) listed on p.193 of our Catalog.