Surface Mount Type

Series: S Type: V



Features

Endurance: 85 °C 2000 h

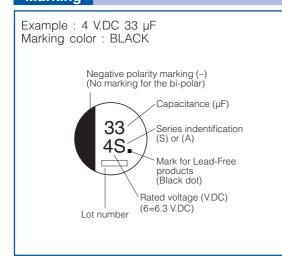
ullet Vibration-proof product is available upon request. (ϕ 8 mm and larger)

RoHS compliant

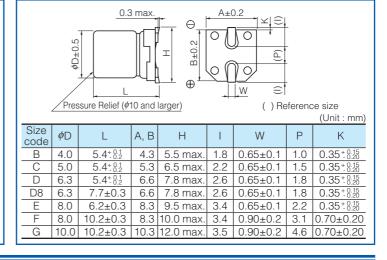
Specifications															
Category temperature range		−40 °C to +85 °C													
Rated voltage range	4 V.DC to 100 V.DC														
Capacitance range		1 μF to 1500 μF													
Capacitance tolerance		±20 % (120 Hz/+20 °C)													
Leakage current	I ≦ 0.01 CV or	· 3 (µ/	A) (Bi-	Polar	l ≤ 0.0)2 CV	or 6 (μΑ) Α	fter 2	minut	es (Wh	nichever is gr	eater)		
Dissipation factor (tan δ)			Ple	ease	see th	ne att	achec	d char	acteri	stics	list				
Characteristics	V.DC	4	6.3	10	16	25	35	50	63	100					
at low temperature	Z(-25 °C)/Z(+20 °C)	7	4	3	2	2	2	2	3	3	(Impe	edance ratio at 120 Hz			
	Z(-40 °C)/Z(+20 °C)	15	8	6	4	4	3	3	4	4					
	After applying rated working voltage for 2000 hours (Bi-polar:1000 hours for each polarity) at +85 °C±2 °C and then being stabilized at +20 °C, Capacitors shall meet the following limits.														
			Within ±20 % of the initial value												
		Size code			Rated voltage		Cap. change								
Endurance	Capacitance cha	B(\phi4) to D, D8(\phi6.3)			4 V.DC		1000 hours ±30 %								
		 ≤ D(<i>φ</i> 6.3) Miniature			6.3 V.DC										
		· · ·		≥ 10 V.DC		1000 hours ±20 %									
	tan δ ≤200 % of the initial limit														
	DC leakege curr				initial										
Shelf life	After storage for at +20 °C, capac														
	After reflow solde	ring a	and the	en bei	ng sta	abilize	d at +:	20 °C,	capa	citors	shall n	neet the follow	ing limits.		
Resistance to	Capacitance cha	ange	Withi	Within ±10 % of the initial value											
soldering heat	$ an \delta$		Withi	Within the initial limit											
	DC leakage curr	ent	Withi	n the	initial	limit									
AEC-Q200		AEC-Q200 compliant													

Frequency correction factor for ripple current 50, 60 120 Frequency (Hz) 1 k 10 k to 0.70 1.00 1.30 1.70 Correction factor

Marking



Dimensions





Aluminum Electrolytic Capacitors (SMD Type)

Characteristics list

		Case size	ze (mm)	Specification						Min. Packaging Q'ty
Rated voltage (V.DC)	Cap. (±20 %) (μF)	φD	L	Size* code	(+85 °C) (mA r.m.s.)	tan <i>δ</i> (120 Hz) (+20 °C)	Endurance (hours)	Part No.	Reflow	Taping (pcs)
	33	4	5.4	В	26	0.35	1000	EEE0GA330SR	(1)	2000
	47	4	5.4	В	34	0.35	1000	EEE0GA470SR	(1)	2000
4	100	5	5.4	С	61	0.35	1000	EEE0GA101SR	(1)	1000
7	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
	22	4	5.4	В	29	0.26	2000	EEE0JA220SR	(1)	2000
	33	4	5.4	(B)	22	0.35	1000	EEE0JA330WR	(1)	2000
	47	4	5.4	(B)	36	0.35	1000	EEE0JA470WR	(1)	2000
	47	5	5.4	С	46	0.26	2000	EEE0JA470SR	(1)	1000
	100	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	220	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
	330	8	6.2	Е	300	0.35	2000	EEE0JA331P	(2)	1000
	470	8	10.2	F	380	0.35	2000	EEE0JA471P	(2)	500
	1000	8	10.2	(F)	500	0.35	2000	EEE0JA102UP	(2)	500
		10	10.2	G	700	0.35	2000	EEE0JA102P	(2)	500
	1500	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	С	43	0.20	2000	EEE1AA330SR	(1)	1000
	47	5	5.4	(C)	43	0.30	1000	EEE1AA470WR	(1)	1000
	100	5	5.4	(C)	50	0.30	1000	EEE1AA101WR	(1)	1000
10	100	6.3	5.4	D	70	0.26	2000	EEE1AA101SP	(1)	1000
10	220	6.3	7.7	D8	173	0.20	2000	EEE1AA221XP	(1)	900
		8	6.2	Е	250	0.26	2000	EEE1AA221P	(2)	1000
	330	8	10.2	F	390	0.26	2000	EEE1AA331P	(2)	500
	470	8	10.2	(F)	390	0.26	2000	EEE1AA471UP	(2)	500
	470	10	10.2	G	400	0.26	2000	EEE1AA471P	(2)	500
	1000	10	10.2	G	580	0.26	2000	EEE1AA102P	(2)	500
	10	4	5.4	В	28	0.16	2000	EEE1CA100SR	(1)	2000
	22	4	5.4	(B)	28	0.26	1000	EEE1CA220WR	(1)	2000
		5	5.4	С	39	0.16	2000	EEE1CA220SR	(1)	1000
	33	5	5.4	(C)	35	0.26	1000	EEE1CA330WR	(1)	1000
	47	5	5.4	(C)	39	0.26	1000	EEE1CA470WR	(1)	1000
	47	6.3	5.4	D	70	0.16	2000	EEE1CA470SP	(1)	1000
16	100	6.3	5.4	(D)	70	0.26	1000	EEE1CA101WP	(1)	1000
16	100	8	6.2	Е	200	0.20	2000	EEE1CA101P	(2)	1000
	220	6.3	7.7	D8	162	0.16	2000	EEE1CA221XP	(1)	900
	220	8	10.2	F	280	0.20	2000	EEE1CA221P	(2)	500
	220	8	10.2	(F)	320	0.20	2000	EEE1CA331UP	(2)	500
	330	10	10.2	G	380	0.20	2000	EEE1CA331P	(2)	500
	470	8	10.2	(F)	350	0.20	2000	EEE1CA471UP	(2)	500
	470	10	10.2	G	420	0.20	2000	EEE1CA471P	(2)	500

^{*} Size code(): Miniaturization product

[·] Please refer to the page of "Reflow Profile" and "The Taping Dimensions".

[·] When requesting vibration-proof product, please put the last "V" instead to "P"



Aluminum Electrolytic Capacitors (SMD Type)

Characteristics list

		Case size	ze (mm)		S	pecification	n			Min. Packaging Q'ty
Rated voltage (V.DC)	Cap. (±20 %) (µF)	φD	L	Size* code	Ripple current (120 Hz) (+85 °C) (mA r.m.s.)	tan <i>δ</i> (120 Hz) (+20 °C)	Endurance (hours)	Part No.	Reflow	Taping (pcs)
	4.7	4	5.4	В	22	0.14	2000	EEE1EA4R7SR	(1)	2000
	10	4	5.4	(B)	22	0.20	1000	EEE1EA100WR	(1)	2000
	10	5	5.4	С	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
	33	6.3	5.4	D	65	0.14	2000	EEE1EA330SP	(1)	1000
25	47	6.3	5.4	(D)	70	0.20	1000	EEE1EA470WP	(1)	1000
23	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
	4.7	4	5.4	В	22	0.12	2000	EEE1VA4R7SR	(1)	2000
	10	4	5.4	(B)	22	0.16	1000	EEE1VA100WR	(1)	2000
		5	5.4	С	30	0.12	2000	EEE1VA100SR	(1)	1000
	22	5	5.4	(C)	36	0.16	1000	EEE1VA220WR	(1)	1000
	22	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
	33	8	6.2	Е	130	0.14	2000	EEE1VA330P	(2)	1000
35	47	6.3	5.4	(D)	70	0.16	1000	EEE1VA470WP	(1)	1000
	47	8	6.2	Е	165	0.14	2000	EEE1VA470P	(2)	1000
		6.3	7.7	D8	132	0.12	2000	EEE1VA101XP	(1)	900
	100	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
	220	10	10.2	G	310	0.14	2000	EEE1VA221P	(2)	500
	330	10	10.2	G	350	0.14	2000	EEE1VA331P	(2)	500

^{*} Size code() : Miniaturization product

 $[\]cdot$ Please refer to the page of "Reflow Profile" and "The Taping Dimensions".

[·] When requesting vibration-proof product, please put the last "V" instead to "P"



Aluminum Electrolytic Capacitors (SMD Type)

Characteristics list

Rated voltage (V.DC)	Cap. (±20 %) (µF)	Case siz	ze (mm)	Specification						Min. Packaging Q'ty
		φD	L	Size* code	Ripple current (120 Hz) (+85 °C) (mA r.m.s.)	tan <i>δ</i> (120 Hz) (+20 °C)	Endurance (hours)	Part No.	Reflow	Taping (pcs)
	1	4	5.4	В	10	0.12	2000	EEE1HA010SR	(1)	2000
	2.2	4	5.4	В	16	0.12	2000	EEE1HA2R2SR	(1)	2000
	3.3	4	5.4	В	16	0.12	2000	EEE1HA3R3SR	(1)	2000
	4.7	4	5.4	(B)	18	0.14	1000	EEE1HA4R7WR	(1)	2000
	4.7	5	5.4	С	23	0.12	2000	EEE1HA4R7SR	(1)	1000
	10	5	5.4	(C)	27	0.14	1000	EEE1HA100WR	(1)	1000
	10	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
50	22	8	6.2	Е	120	0.12	2000	EEE1HA220P	(2)	1000
50		6.3	7.7	D8	85	0.12	2000	EEE1HA330XP	(1)	900
	33	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
	22	8	6.2	(E)	40	0.18	2000	EEE1JA220UP	(2)	1000
		8	10.2	F	40	0.18	2000	EEE1JA220P	(2)	500
63	33	8	10.2	F	45	0.18	2000	EEE1JA330P	(2)	500
03	47	8	10.2	(F)	45	0.18	2000	EEE1JA470UP	(2)	500
	47	10	10.2	G	45	0.18	2000	EEE1JA470P	(2)	500
	100	10	10.2	G	60	0.18	2000	EEE1JA101P	(2)	500
	4.7	8	6.2	(E)	50	0.18	2000	EEE2AA4R7UP	(2)	1000
	10	8	6.2	(E)	50	0.18	2000	EEE2AA100UP	(2)	1000
100	10	8	10.2	F	85	0.18	2000	EEE2AA100P	(2)	500
100	22	8	10.2	(F)	55	0.18	2000	EEE2AA220UP	(2)	500
	22	10	10.2	G	85	0.18	2000	EEE2AA220P	(2)	500
	33	10	10.2	G	90	0.18	2000	EEE2AA330P	(2)	500

^{*} Size code(): Miniaturization product

Please refer to the page of "Reflow Profile" and "The Taping Dimensions".

[·] When requesting vibration-proof product, please put the last "V" instead to "P"



Panasonic Aluminum Electrolytic Capacitors (SMD Type)

Characteristics list (Bi-polar)

Endurance: 85 °C 2000 h

		Case siz	ze (mm)		S	pecification	n			Min. Packaging Q'ty
Rated voltage (V.DC)	Cap. (±20 %) (µF)	φD	L	Size code	Ripple current (120 Hz) (+85 °C) (mA r.m.s.)	tan <i>δ</i> (120 Hz) (+20 °C)	Endurance (hours)	Part No.	Reflow	Taping (pcs)
6.3	22	5	5.4	С	29	0.52	2000	EEE0JA220NR	(1)	1000
0.3	47	6.3	5.4	D	46	0.52	2000	EEE0JA470NP	(1)	1000
10	10	4	5.4	В	25	0.40	2000	EEE1AA100NR	(1)	2000
10	33	6.3	5.4	D	43	0.40	2000	EEE1AA330NP	(1)	1000
	4.7	4	5.4	В	20	0.32	2000	EEE1CA4R7NR	(1)	2000
16	10	5	5.4	С	25	0.32	2000	EEE1CA100NR	(1)	1000
	22	6.3	5.4	D	39	0.32	2000	EEE1CA220NP	(1)	1000
	3.3	4	5.4	В	12	0.28	2000	EEE1EA3R3NR	(1)	2000
25	4.7	5	5.4	С	21	0.28	2000	EEE1EA4R7NR	(1)	1000
	10	6.3	5.4	D	28	0.28	2000	EEE1EA100NP	(1)	1000
	2.2	4	5.4	В	12	0.24	2000	EEE1VA2R2NR	(1)	2000
35	4.7	5	5.4	С	22	0.24	2000	EEE1VA4R7NR	(1)	1000
	10	6.3	5.4	D	30	0.24	2000	2000 EEE1VA100NP		1000
	1	4	5.4	В	10	0.24	2000	EEE1HA010NR	(1)	2000
50	2.2	5	5.4	С	16	0.24	2000	EEE1HA2R2NR	(1)	1000
50	3.3	5	5.4	С	21	0.24	2000	EEENZ1H3R3R	(1)	1000
	4.7	6.3	5.4	D	31	0.24	2000	EEE1HA4R7NP	(1)	1000

[·] Please refer to the page of "Reflow Profile" and "The Taping Dimensions".

[·] When requesting vibration-proof product, please put the last "V" instead to "P"

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EEE-1CA100NP EEE-1CA4R7NR EEE-0GA101SR EEE-0GA221SP EEE-0GA330SR EEE-0GA470SR EEE0JA101SP EEE-0JA101WR EEE-0JA102P EEE-0JA102UP EEE-0JA152P EEE-0JA220SR EEE-0JA221WP EEE0JA330WR EEE-0JA331P EEE-0JA331XP EEE-0JA470SR EEE-0JA470WR EEE-0JA471P EEE-1AA101SP EEE1AA101WR EEE-1AA102P EEE-1AA220WR EEE-1AA221P EEE-1AA221XP EEE-1AA330SR EEE-1AA330WR
EEE-1AA331P EEE-1AA470WR EEE-1AA471P EEE-1AA471UP EEE-1CA100SR EEE-1CA101P EEE-1CA101WP
EEE-1CA220SR EEE-1CA220WR EEE-1CA221P EEE-1CA221UP EEE-1CA221XP EEE-1CA330WR EEE1CA331P EEE-1CA331UP EEE-1CA470SP EEE-1CA470WR EEE-1CA471P EEE-1CA471UP EEE-1EA100SR
EEE-1EA100WR EEE-1EA101P EEE-1EA101UP EEE-1EA101XP EEE-1EA220SP EEE-1EA220WR EEE-1EA221P
EEE-1EA221UP EEE-1EA330SP EEE-1EA330WR EEE-1EA331P EEE-1EA331UP EEE-1EA470WP EEE1EA471P EEE-1EA4R7SR EEE-1HA010SR EEE-1HA100SP EEE-1HA100WR EEE-1HA101P EEE-1HA101UP
EEE-1HA220P EEE-1HA220WP EEE-1HA221P EEE-1HA22SR EEE-1HA330P EEE-1HA330UP EEE-1HA330XP
EEE-1HA3R3SR EEE-1HA470P EEE-1HA470UP EEE-1HA470XP EEE-1HA4R7SR EEE-1HA4R7WR EEE1HAR22SR EEE-1JA101P EEE-1JA220P EEE-1JA220UP EEE-1JA330P EEE-1JA470UP EEE-1VA100SR EEE1VA100WR EEE-1VA101P EEE-1VA30WP EEE-1VA330WP EEE-1VA330P EEE-1VA470WP EEE-1VA470WP
EEE-1VA221UP EEE-1VA330P EEE-1VA330WP EEE-1VA330P EEE-1VA470WP