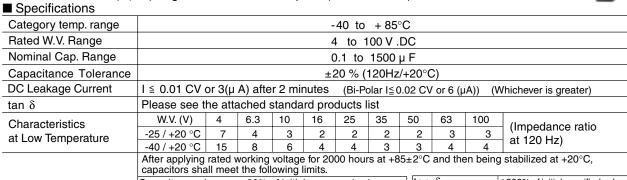
Surface Mount Type

Series: S Type: V

■ Features Endurance: 85°C 2000 h

5.4 mm (≤ φ6.3) height, RoHS directive compliant (Parts No:EEE*)





	capacitors shall mee	t the lollowing	g iimits.			
	Capacitance change	: ±20% of init	tan δ	≤ 200% of initial specified value		
	Size code	Rated W.V.	Cap. change		DC leakage current	≦initial specified value
Endurance	A(\$3)	4 to 50W.V.	. 000/	1-18-1		
	A(φ3) to D8(φ6.3)	4 W.V.	±30%	Initial measured value for 1000		
	≤D(\phi6.3)Miniature	6.3 W.V.		hours		
	= D(ψ0.0)////////αιαιαια	≧ 10 W.V.	±20%	Tiodio		

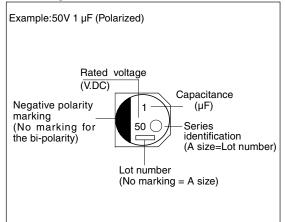
After storage for 1000 hours at +85±2°C with no voltage applied and then being stabilized Shelf Life at +20°C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)

After reflow soldering (Refer to page 86 for recommended temperature profile) and then being stabilized at +20°C, capacitor shall meet the following limits. Resistance to Capacitance change ±10% of initial measured value Soldering Heat

≦ initial specified value tan δ ≦ initial specified value DC leakage current

Marking

■ Dimensions in mm (not to scale)



Size code D L A,B H I W P K A 3.0 5.4 3.3 4.5max 1.5 0.55±0.1 0.6 0.35 -0.20 to +0.1					0.3	max			A±0.2	()reference	e size
Size code D L A,B H I W P K A 3.0 5.4 3.3 4.5max 1.5 0.55±0.1 0.6 0.35 -0.20 to +0.1	E,F,G,[-	+	L -	+0.1 -0.2	I	B±0.2		<u>e</u>	. ± (mm)
	Size	D D	D	L	A,B	н	ı	W	Р	К	
B 40 54 40 55 000 40 005 001 40 005 000 to 00	Α	3.0	3.0	5.4	3.3	4.5мах	1.5	0.55±0.1	0.6	0.35 - 0.20 to	+0.15
$ D 4.0 5.4 4.3 5.5 MAX 1.8 0.65 \pm 0.1 1.0 0.35 - 0.20 to +0.1$	В	4.0	4.0	5.4	4.3	5.5мах	1.8	0.65±0.1	1.0	0.35 -0.20 to	+0.15
C 5.0 5.4 5.3 6.5MAX 2.2 0.65±0.1 1.5 0.35 -0.20 to +0.1	С	5.0	5.0	5.4	5.3	6.5мах	2.2	0.65±0.1	1.5	0.35 -0.20 to	+0.15
D 6.3 5.4 6.6 7.8MAX 2.6 0.65±0.1 1.8 0.35 -0.20 to +0.1	D	6.3	6.3	5.4	6.6	7.8мах	2.6	0.65±0.1	1.8	0.35 -0.20 to	+0.15
D8 6.3 7.7 6.6 7.8MAX 2.6 0.65±0.1 1.8 0.35 -0.20 to +0.1	D8	6.3	6.3	7.7	6.6	7.8мах	2.6	0.65±0.1	1.8	0.35 -0.20 to	+0.15
E 8.0 6.2 8.3 9.5MAX 3.4 0.65±0.1 2.2 0.35-0.20 to +0.1	E	8.0	8.0	6.2	8.3	9.5мах	3.4	0.65±0.1	2.2	0.35-0.20 to	+0.15
F 8.0 10.2 8.3 10.0MAX 3.4 0.90±0.2 3.1 0.70±0.2	F	8.0	8.0 1	0.2	8.3	10.0мах	3.4	0.90±0.2	3.1	0.70±0.2	
G 10.0 10.2 10.3 12.0MAX 3.5 0.90±0.2 4.6 0.70±0.2	G	10.0	10.0	0.2	10.3	12.0мах	3.5	0.90±0.2	4.6	0.70±0.2	

Case size

■ Case s	5120														
W.V.(V)	4 (0G)	6.3	(OJ)	10 ((1A)	16	(1C)	25	(1E)	35 ((1V)	50 ((1H)	63 (1J)	100 (2A)
Cap.(µF)	Polar- ized	Polar- ized	Bi - polar	Polar- ized	Polar- ized										
0.1												A,B			
0.22												A,B	В		
0.33												A,B	В		
0.47												A,B	В		
1.0												A,B	В		
2.2										Α	В	A,B	С		
3.3									В	Α		В	С		Е
4.7							В	A,B	С	В	С	C(B)	D		F(E)
10					В	A,B	C	C(B)	D	C(B)	D	D(C)			F(E)
22	Α	B(A)	С	(B)		C(B)	D	D(C)		D(C)		E(D)		F(E)	G(F)
33	В	(B)		C(B)	D	(C)		D(C)		E(D)		F(E),D8		F	G
47	В	C(B)	D	(C)		D(Ć)		(D)		E(D)		G(F),D8		G(F)	
100	С	D(C)		D(C)		E(D)		F(E),D8		G(F),D8		G(F)		G	
220	D	(D)		E,D8		F,D8		Ġ(F)		G(F)		G			
330	(D)	È,Ď8		F		G(F)		G(F)		G					
470	D8	F		G(F)		G(F)		G							
1000		G(F)		G											
1500		G													

■ Standard Products

Mathematical Component Mathematical Compon		iliualu	1 1001		. cizo	S	pecificat	ion			David Na		Min.
	W.V.	Cap.	Dia						Part No. (RoHS:		Part No. (RoHS:		Packaging
		(±20%)	Dia.	Longar		Current (120Hz)				ᆔ		П	
	(v)	(uE)	(mm)	(mm)		(+85°C)				Reflc		eflo	
33	(•)	· · ·	· ,		Λ		0.07	,	505\\0000000				., ,
47				_						1		\ <i>'</i>	
100				-		_				+ ` '		· ′	
220 6.3 5.4 D 82 0.35 1000 ECEVOGA221SP (1) EEEOGA221SP (4) 1000	4			_		_				1 1		<u> </u>	
330 6.3 5.4 D 80 0.50 1000 ECEVOGA331WP (1) EEEOGA31WP (4) 1000										+`-'1		1 1	
1470				_						+ +		<u> </u>	
Region R				_						+` '		· ′	
100 100		470			_					1		1 1	
33		22		_						+ +		<u> </u>	
6.3 6.3 6.4 6.5 6.5 6.6 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7			-	-						+`-		<u> </u>	
6.3 February 100 February 100		33	-	_						+ +		· /	
6.3 100 5 5.4 C 47 0.35 1000 ECEVOJATOTWR (1) EEEOJATOTWR (4) 1000		47		_						1 1		<u>'</u>	
6.3				_						+ +		(4)	
100		100		_								(4)	
10	6.3			_					ECEV0JA101SP	(1)	EEE0JA101SP	(4)	
8		220								(1)	EEE0JA221WP	(4)	
100		330							ECEV0JA331XP	(1)	EEE0JA331XP	(4)	900
1000			8				0.35	2000	ECEV0JA331P	(2)	EEE0JA331P	(5)	1000
1000 10 10.2 G 700 0.35 2000 ECEVOJA102P (2) EEEOJA102P (5) 500		470					0.35	2000	ECEV0JA471P	(2)	EEE0JA471P	(5)	500
10		1000	8				0.35	2000	ECEV0JA102UP	(2)	EEE0JA102UP	(5)	500
10		1000	10				0.35	2000	ECEV0JA102P	(2)	EEE0JA102P	(5)	500
10		1500	10			750	0.35	2000	ECEV0JA152P	(2)	EEE0JA152P	(5)	500
10		22	4	5.4	В	28	0.30	1000	ECEV1AA220WR	(1)	EEE1AA220WR	(4)	2000
100		33	4	5.4	В	29	0.30	1000	ECEV1AA330WR	(1)	EEE1AA330WR	(4)	2000
100		33	5	5.4	С	43	0.20	2000	ECEV1AA330SR	(1)	EEE1AA330SR	(4)	1000
100 6.3 5.4 D 70 0.26 2000 ECEV1AA101SP (1) EEE1AA101SP (4) 1000		47	5	5.4	С	47	0.30	1000	ECEV1AA470WR	(1)	EEE1AA470WR	(4)	1000
10		100	5	5.4	С	50	0.30	1000	ECEV1AA101WR	(1)	EEE1AA101WR	(4)	1000
Record R	10	100	6.3	5.4	D	70	0.26	2000	ECEV1AA101SP	(1)	EEE1AA101SP	(4)	1000
10		220	6.3	7.7	D8	173	0.20	2000	ECEV1AA221XP	(1)	EEE1AA221XP	(4)	900
10		220	8	6.2	Е	250	0.26	2000	ECEV1AA221P	(2)	EEE1AA221P	(5)	1000
10 10.2 G 400 0.26 2000 ECEV1AA471P (2) EEE1AA471P (5) 500 1000 10 10.2 G 580 0.26 2000 ECEV1AA102P (2) EEE1AA471P (5) 500 1000 10 10.2 G 580 0.26 2000 ECEV1AA102P (2) EEE1AA102P (5) 500 100 4 5.4 B 28 0.16 2000 ECEV1CA100SR (1) EEE1CS100SR (4) 2000 22 4 5.4 B 28 0.26 1000 ECEV1CA220WR (1) EEE1CA220WR (4) 2000 5 5.4 C 39 0.16 2000 ECEV1CA220SR (1) EEE1CA220SR (4) 1000 33 5 5.4 C 35 0.26 1000 ECEV1CA330WR (1) EEE1CA330WR (4) 1000 33 5 5.4 C 39 0.26 1000 ECEV1CA330WR (1) EEE1CA330WR (4) 1000 47 6.3 5.4 D 70 0.16 2000 ECEV1CA470WR (1) EEE1CA470WR (4) 1000 6.3 5.4 D 70 0.26 1000 ECEV1CA470SP (1) EEE1CA470SP (4) 1000 8 6.2 E 200 0.20 2000 ECEV1CA101WP (1) EEE1CA101WP (4) 1000 20 6.3 7.7 D8 162 0.16 2000 ECEV1CA221XP (1) EEE1CA221XP (4) 900		330	8	10.2	F	390	0.26	2000	ECEV1AA331P	(2)	EEE1AA331P	(5)	500
10 10.2 G 400 0.26 2000 ECEV1AA471P (2) EEE1AA471P (5) 500 1000 10 10.2 G 580 0.26 2000 ECEV1AA102P (2) EEE1AA102P (5) 500 3 5.4 A 20 0.18 1000 ECEV1CS100SR (1) EEE1CS100SR (4) 2000 4 5.4 B 28 0.16 2000 ECEV1CA100SR (1) EEE1CA100SR (4) 2000 22 4 5.4 B 28 0.26 1000 ECEV1CA220WR (1) EEE1CA220WR (4) 2000 33 5 5.4 C 39 0.16 2000 ECEV1CA220WR (1) EEE1CA220WR (4) 1000 33 5 5.4 C 35 0.26 1000 ECEV1CA330WR (1) EEE1CA330WR (4) 1000 47 6.3 5.4 C 39 0.26 1000 ECEV1CA470WR (1) EEE1CA470WR (4) 1000 6.3 5.4 D 70 0.16 2000 ECEV1CA470WR (1) EEE1CA470WR (4) 1000 8 6.2 E 200 0.20 2000 ECEV1CA101WP (1) EEE1CA101WP (4) 1000 20 6.3 7.7 D8 162 0.16 2000 ECEV1CA221XP (1) EEE1CA221XP (4) 900		470	8	10.2	F	390	0.26	2000	ECEV1AA471UP	(2)	EEE1AA471UP	(5)	500
10		470	10	10.2	G	400	0.26	2000	ECEV1AA471P	(2)	EEE1AA471P	(5)	500
10		1000	10	10.2	G	580	0.26	2000	ECEV1AA102P	(2)		(5)	500
10			3	5.4	Α	20	0.18	1000	ECEV1CS100SR	(1)		(4)	2000
16		10	4	5.4	В	28	0.16	2000	ECEV1CA100SR	(1)		(4)	
16			4	5.4	В	28	0.26	1000		(1)		(4)	
16 33 5 5.4 C 35 0.26 1000 ECEV1CA330WR (1) EEE1CA330WR (4) 1000 47 5 5.4 C 39 0.26 1000 ECEV1CA470WR (1) EEE1CA470WR (4) 1000 ECEV1CA470SP (1) EEE1CA470SP (4) 1000 ECEV1CA470SP (1) EEE1CA470SP (4) 1000 ECEV1CA101WP (1) EEE1CA101WP (4) 1000 8 6.3 5.4 D 70 0.26 1000 ECEV1CA101WP (1) EEE1CA101WP (4) 1000 ECEV1CA101P (2) EEE1CA101P (5) 1000 220 6.3 7.7 D8 162 0.16 2000 ECEV1CA221XP (1) EEE1CA221XP (4) 900		22	5	5.4	С	39	0.16	2000		(1)		(4)	
16 47 5 5.4 C 39 0.26 1000 ECEV1CA470WR (1) EEE1CA470WR (4) 1000 6.3 5.4 D 70 0.16 2000 ECEV1CA470SP (1) EEE1CA470SP (4) 1000 100 6.3 5.4 D 70 0.26 1000 ECEV1CA101WP (1) EEE1CA101WP (4) 1000 8 6.2 E 200 0.20 2000 ECEV1CA101P (2) EEE1CA101P (5) 1000 220 6.3 7.7 D8 162 0.16 2000 ECEV1CA221XP (1) EEE1CA221XP (4) 900		33	5	5.4	С	35	0.26	1000		+ +		+ 1	
47 6.3 5.4 D 70 0.16 2000 ECEV1CA470SP (1) EEE1CA470SP (4) 1000 100 8 6.2 E 200 0.20 2000 ECEV1CA101P (2) EEE1CA101P (5) 1000 220 6.3 7.7 D8 162 0.16 2000 ECEV1CA221XP (1) EEE1CA221XP (4) 900	16		5	5.4	С	39	0.26	1000		(1)		(4)	
100 6.3 5.4 D 70 0.26 1000 ECEV1CA101WP (1) EEE1CA101WP (4) 1000 8 6.2 E 200 0.20 2000 ECEV1CA101P (2) EEE1CA101P (5) 1000 220 6.3 7.7 D8 162 0.16 2000 ECEV1CA221XP (1) EEE1CA221XP (4) 900		47	6.3	5.4	D	70	0.16	2000		+ +		(4)	
100 8 6.2 E 200 0.20 2000 ECEV1CA101P (2) EEE1CA101P (5) 1000 220 6.3 7.7 D8 162 0.16 2000 ECEV1CA221XP (1) EEE1CA221XP (4) 900			6.3	5.4	D	70	0.26	1000		+ +		-	
220 6.3 7.7 D8 162 0.16 2000 ECEV1CA221XP (1) EEE1CA221XP (4) 900		100	8	6.2	Е	200	0.20	2000		+ +		1 · ·	
220		000	6.3	7.7	D8	162							
		220	8	10.2	F	280		2000		-		1	

An explanation of the taping dimensions can be found on page 84. Reflow profiles can be found on page 86.

■ Standard Products

	ındard	1 1000				:(:			_			14:
w.v.	Cap.	D:		size Size	Ripple	pecificat tan δ	Endur-	Part No. (RoHS:		Part No. (RoHS:		Min. Packaging
	(±20%)	Dia.	Length	Code	Current	(120Hz)	ance	not compliant)		compliant)		Q'ty
	(· F)		()		(120Hz) (+85°C)	(+20°C)			Reflow		Reflow	Taping
(V)	(µF)	,	(mm)		(m A)		(hours)				\ ¥	(pcs)
	330	8	10.2	F	320	0.20	2000	ECEV1CA331UP	(2)	EEE1CA331UP	(5)	500
16		10	10.2	G	380	0.20	2000	ECEV1CA331P	(2)	EEE1CA331P	(5)	500
	470	8	10.2	F	350	0.20	2000	ECEV1CA471UP	(2)	EEE1CA471UP	(5)	500
		10	10.2	G	420	0.20	2000	ECEV1CA471P	(2)	EEE1CA471P	(5)	500
	4.7	3	5.4	Α	12	0.16	1000	ECEV1ES4R7SR	(1)	EEE1ES4R7SR	(4)	2000
		4	5.4	В	22	0.14	2000	ECEV1EA4R7SR	(1)	EEE1EA4R7SR	(4)	2000
	10	4	5.4	В	22	0.20	1000	ECEV1EA100WR	(1)	EEE1EA100WR	(4)	2000
		5	5.4	С	28	0.14	2000	ECEV1EA100SR	(1)	EEE1EA100SR	(4)	1000
	22	5	5.4	С	35	0.20	1000	ECEV1EA220WR	(1)	EEE1EA220WR	(4)	1000
		6.3	5.4	D	55	0.14	2000	ECEV1EA220SP	(1)	EEE1EA220SP	(4)	1000
25	33	5	5.4	С	42	0.20	1000	ECEV1EA330WR	(1)	EEE1EA330WR	(4)	1000
		6.3	5.4	D	65	0.14	2000	ECEV1EA330SP	(1)	EEE1EA330SP	(4)	1000
	47	6.3	5.4	D	70	0.20	1000	ECEV1EA470WP	(1)	EEE1EA470WP	(4)	1000
		6.3	7.7	D8	143	0.14	2000	ECEV1EA101XP	(1)	EEE1EA101XP	(4)	900
	100	8	6.2	Е	91	0.16	2000	ECEV1EA101UP	(2)	EEE1EA101UP	(5)	1000
		8	10.2	F	180	0.16	2000	ECEV1EA101P	(2)	EEE1EA101P	(5)	500
	220	8	10.2	F	230	0.16	2000	ECEV1EA221UP	(2)	EEE1EA221UP	(5)	500
		10	10.2	G	310	0.16	2000	ECEV1EA221P	(2)	EEE1EA221P	(5)	500
	330	8	10.2	F	270	0.16	2000	ECEV1EA331UP	(2)	EEE1EA331UP	(5)	500
		10	10.2	G	340	0.16	2000	ECEV1EA331P	(2)	EEE1EA331P	(5)	500
	470	10	10.2	G	380	0.16	2000	ECEV1EA471P	(2)	EEE1EA471P	(5)	500
	2.2	3	5.4	Α	8	0.14	1000	ECEV1VS2R2SR	(1)	EEE1VS2R2SR	(4)	2000
	3.3	3	5.4	Α	10	0.14	1000	ECEV1VS3R3SR	(1)	EEE1VS3R3SR	(4)	2000
	4.7	4	5.4	В	22	0.12	2000	ECEV1VA4R7SR	(1)	EEE1VA4R7SR	(4)	2000
	7.7	4	5.4	В	22	0.16	1000	ECEV1VA100WR	(1)	EEE1VA100WR	(4)	2000
	10	5	5.4	С	30	0.12	2000	ECEV1VA100SR	(1)	EEE1VA100SR	(4)	1000
	00	5	5.4	С	36	0.16	1000	ECEV1VA220WR	(1)	EEE1VA220WR	(4)	1000
	22	6.3	5.4	D	60	0.12	2000	ECEV1VA220SP	(1)	EEE1VA220SP	(4)	1000
0.5	33	6.3	5.4	D	60	0.16	1000	ECEV1VA330WP	(1)	EEE1VA330WP	(4)	
35		8	6.2	E	130	0.14	2000	ECEV1VA330P	(2)	EEE1VA330P	(5)	1000
	47	6.3	5.4	D	70	0.16	1000	ECEV1VA470WP	(1)	EEE1VA470WP	(4)	1000
	_ - /	8	6.2	E	165	0.14	2000	ECEV1VA470P	(2)	EEE1VA470P	(5)	1000
		6.3	7.7	 D8	132	0.12	2000	ECEV1VA101XP	(1)	EEE1VA101XP	+ 	900
	100	8		F	140	0.14	2000	ECEV1VA101VI	+ 1	EEE1VA101UP	(4)	500
		10	10.2	G	210	0.14	2000	ECEV1VA10101	(2)	EEE1VA10101	(5)	500
	000	8	10.2	F	200	0.14	2000		(2)		(5)	
	220	10	10.2	G	310	0.14	2000	ECEV1VA221UP	(2)	EEE1VA221UP EEE1VA221P	(5)	500
	200	10	10.2	G	350	0.14	2000	ECEV1VA221P	(2)		(5)	500
	330		10.2					ECEVIVA331P	(2)	EEE1VA331P	(5)	500
	0.1	3	5.4	A	1	0.14	1000	ECEVIHSORISR	(1)	EEE1HS0R1SR	(4)	2000
	1	4	5.4	В	1	0.12	2000	ECEVIHA0R1SR	(1)	EEE1HA0R1SR	(4)	2000
50	0.22	3	5.4	A	2	0.14	1000	ECEVIHSR22SR	(1)	EEE1HSR22SR	(4)	2000
	0.55	4	5.4	В	2	0.12	2000	ECEVIHAR22SR	(1)	EEE1HAR22SR	(4)	2000
	0.33	3	5.4	A	3	0.14	1000	ECEVIHSR33SR	(1)	EEE1HSR33SR	(4)	2000
		4	5.4	В	3	0.12	2000	ECEV1HAR33SR	(1)	EEE1HAR33SR	(4)	2000

An explanation of the taping dimensions can be found on page 84. Reflow profiles can be found on page 86.



■ Standard Products

	_	С	ase siz	:e	Sp	ecificatio	on	Part No.		Part No.		Min.
W.V.	Cap. (±20%)	Dia.	Length		Ripple Current	tan δ	Endur-	(RoHS: not compliant)		(RoHS: compliant)		Packaging Q'ty
	(±20 /o)			Code	(120Hz)	(120Hz)	ance	not compliant)	Re	compliant)	Re	Taping
(V)	(μF)	(mm)	(mm)		(+85°C) (mA)	(+20°C)	(hours)		Reflow		Reflow	(pcs)
	0.47	3	5.4	Α	5	0.14	1000	ECEV1HSR47SR	(1)	EEE1HSR47SR	(4)	2000
		4	5.4	В	5	0.12	2000	ECEV1HAR47SR	(1)	EEE1HAR47SR	(4)	2000
	1	3	5.4	Α	8	0.14	1000	ECEV1HS010SR	(1)	EEE1HS010SR	(4)	2000
		4	5.4	В	10	0.12	2000	ECEV1HA010SR	(1)	EEE1HA010SR	(4)	2000
	2.2	3	5.4	Α	10	0.14	1000	ECEV1HS2R2SR	(1)	EEE1HS2R2SR	(4)	2000
	2.2	4	5.4	В	16	0.12	2000	ECEV1HA2R2SR	(1)	EEE1HA2R2SR	(4)	2000
	3.3	4	5.4	В	16	0.12	2000	ECEV1HA3R3SR	(1)	EEE1HA3R3SR	(4)	2000
	4.7	4	5.4	В	18	0.14	1000	ECEV1HA4R7WR	(1)	EEE1HA4R7WR	(4)	2000
		5	5.4	С	23	0.12	2000	ECEV1HA4R7SR	(1)	EEE1HA4R7SR	(4)	1000
50	10	5	5.4	С	27	0.14	1000	ECEV1HA100WR	(1)	EEE1HA100WR	(4)	1000
	10	6.3	5.4	D	35	0.12	2000	ECEV1HA100SP	(1)	EEE1HA100SP	(4)	1000
	22	6.3	5.4	D	40	0.14	1000	ECEV1HA220WP	(1)	EEE1HA220WP	(4)	1000
		8	6.2	Е	120	0.12	2000	ECEV1HA220P	(2)	EEE1HA220P	(5)	1000
		6.3	7.7	D8	65	0.12	2000	ECEV1HA330XP	(1)	EEE1HA330XP	(4)	900
	33	8	6.2	Е	65	0.12	2000	ECEV1HA330UP	(2)	EEE1HA330UP	(5)	1000
		8	10.2	F	110	0.12	2000	ECEV1HA330P	(2)	EEE1HA330P	(5)	500
		6.3	7.7	D8	105	0.12	2000	ECEV1HA470XP	(1)	EEE1HA470XP	(4)	900
	47	8	10.2	F	110	0.12	2000	ECEV1HA470UP	(2)	EEE1HA470UP	(5)	500
		10	10.2	G	130	0.12	2000	ECEV1HA470P	(2)	EEE1HA470P	(5)	500
	100	8	10.2	F	200	0.12	2000	ECEV1HA101UP	(2)	EEE1HA101UP	(5)	500
	100	10	10.2	G	250	0.12	2000	ECEV1HA101P	(2)	EEE1HA101P	(5)	500
	220	10	10.2	G	300	0.12	2000	ECEV1HA221P	(2)	EEE1HA221P	(5)	500
	22	8	6.2	E	35	0.18	2000	ECEV1JA220UP	(2)	EEE1JA220UP	(5)	1000
		8	10.2	F	40	0.18	2000	ECEV1JA220P	(2)	EEE1JA220P	(5)	500
63	33	8	10.2	F	45	0.18	2000	ECEV1JA330P	(2)	EEE1JA330P	(5)	500
	47	8	10.2	F	45	0.18	2000	ECEV1JA470UP	(2)	EEE1JA470UP	(5)	500
		10	10.2	G	50	0.18	2000	ECEV1JA470P	(2)	EEE1JA470P	(5)	500
	100	10	10.2	G	60	0.18	2000	ECEV1JA101P	(2)	EEE1JA101P	(5)	500
	3.3	8	6.2	E	50	0.18	2000	ECEV2AA3R3P	(2)	EEE2AA3R3P	(5)	1000
	4.7	8	6.2	Е	50	0.18	2000	ECEV2AA4R7UP	(2)	EEE2AA4R7UP	(5)	1000
		8	10.2	F	80	0.18	2000	ECEV2AA4R7P	(2)	EEE2AA4R7P	(5)	500
	10	8	6.2	Е	50	0.18	2000	ECEV2AA100UP	(2)	EEE2AA100UP	(5)	1000
100	10	8	10.2	F	85	0.18	2000	ECEV2AA100P	(2)	EEE2AA100P	(5)	500
	22	8	10.2	F	70	0.18	2000	ECEV2AA220UP	(2)	EEE2AA220UP	(5)	500
		10	10.2	G	85	0.18	2000	ECEV2AA220P	(2)	EEE2AA220P	(5)	500
	33	10	10.2	G	90	0.18	2000	ECEV2AA330P	(2)	EEE2AA330P	(5)	500

An explanation of the taping dimensions can be found on page 84. Reflow profiles can be found on page 86.

■ Standard Products(Bi-polar)

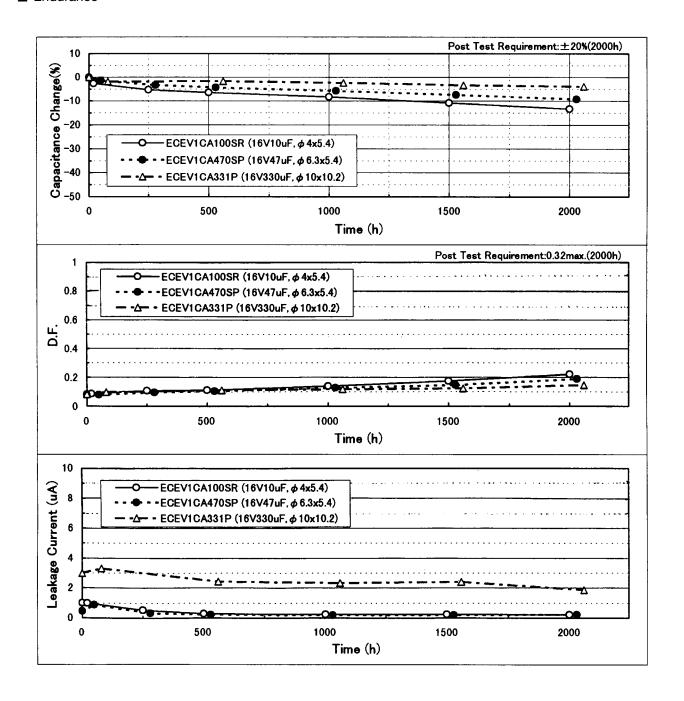
	0	С	ase siz	е	Sı	oecificati	on	Part No.	Part No.	Min.
W.V.	Cap. (±20%)	Dia.	Length	Size Code	Ripple Current	$tan \ \delta$	Endur- ance	(RoHS: not compliant)	(RoHS: compliant)	Packaging Q'ty
(V)	(µF)	(mm)	(mm)		(120Hz) (+85°C) (m A)	(120Hz) (+20°C)	(hours)	Reflow	oompilaint)	Taping (pcs)
6.3	22	5	5.4	С	29	0.52	2000	ECEV0JA220NR (1)	EEE0JA220NR (4	1000
0.0	47	6.3	5.4	D	46	0.52	2000	ECEV0JA470NP (1)	EEE0JA470NP (4	1000
10	10	4	5.4	В	25	0.40	2000	ECEV1AA100NR (1)	EEE1AA100NR (4	2000
10	33	6.3	5.4	D	43	0.40	2000	ECEV1AA330NP (1)	EEE1AA330NP (4	1000
	4.7	4	5.4	В	20	0.32	2000	ECEV1CA4R7NR (1)	EEE1CA4R7NR (4	2000
16	10	5	5.4	С	25	0.32	2000	ECEV1CA100NR (1)	EEE1CA100NR (4	1000
	22	6.3	5.4	D	39	0.32	2000	ECEV1CA220NP (1)	EEE1CA220NP (4	1000
	3.3	4.0	5.4	В	12	0.28	2000	ECEV1EA3R3NR (1)	EEE1EA3R3NR (4	2000
25	4.7	5	5.4	С	21	0.28	2000	ECEV1EA4R7NR (1)	EEE1EA4R7NR (4	1000
	10	6.3	5.4	D	28	0.28	2000	ECEV1EA100NP (1)	EEE1EA100NP (4	1000
	2.2	4	5.4	В	12	0.24	2000	ECEV1VA2R2NR (1)	EEE1VA2R2NR (4	2000
35	4.7	5	5.4	С	22	0.24	2000	ECEV1VA4R7NR (1)	EEE1VA4R7NR (4) 1000
	10	6.3	5.4	D	30	0.24	2000	ECEV1VA100NP (1)	EEE1VA100NP (4	1000
	0.22	4	5.4	В	2	0.24	2000	ECEV1HAR22NR (1)	EEE1HAR22NR (4	2000
	0.33	4	5.4	В	3	0.24	2000	ECEV1HAR33NR (1)	EEE1HAR33NR (4	2000
	0.47	4	5.4	В	5	0.24	2000	ECEV1HAR47NR (1)	EEE1HAR47NR (4	2000
50	1	4	5.4	В	10	0.24	2000	ECEV1HA010NR (1)	EEE1HA010NR (4	2000
	2.2	5	5.4	С	16	0.24	2000	ECEV1HA2R2NR (1)	EEE1HA2R2NR (4	1000
	3.3	5	5.4	С	21	0.24	2000	EEVNZ1H3R3R (1)	EEE1H3R3NR (4	1000
	4.7	6.3	5.4	D	31	0.24	2000	ECEV1HA4R7NP (1)	EEE1HA4R7NP (4	1000

An explanation of the taping dimensions can be found on page 84. Reflow profiles can be found on page 86.

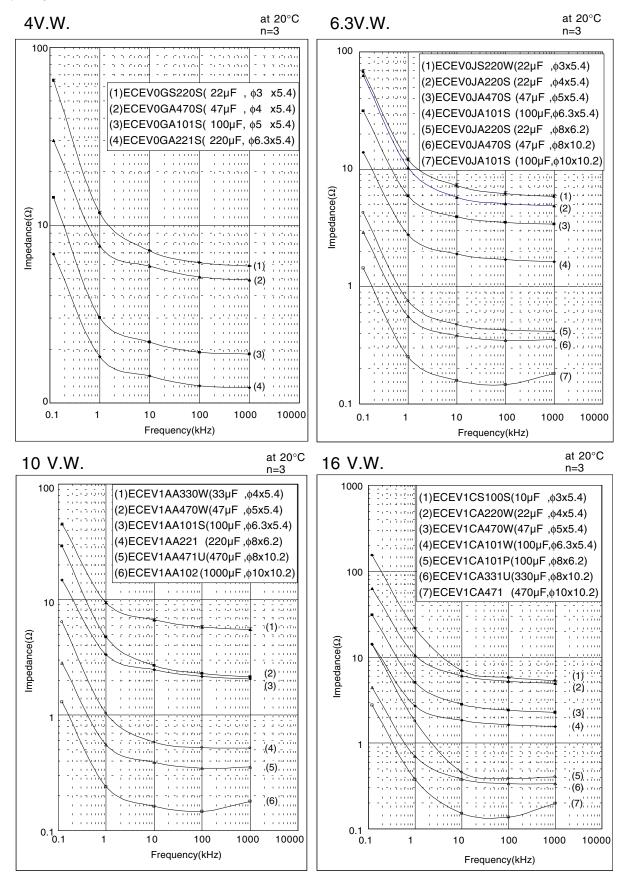
■ Frequency Correction Factor of Rated Ripple Current

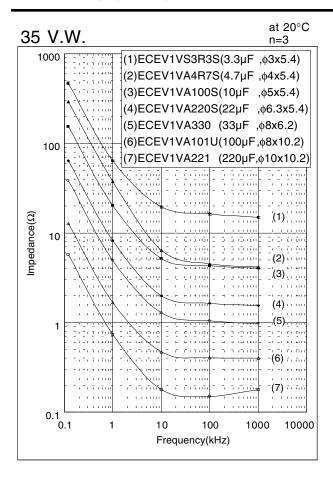
		Frequency (Hz)							
	50,60	120	1k	10k~					
coefficient	0.70	1.0	1.3	1.7					

■ Endurance

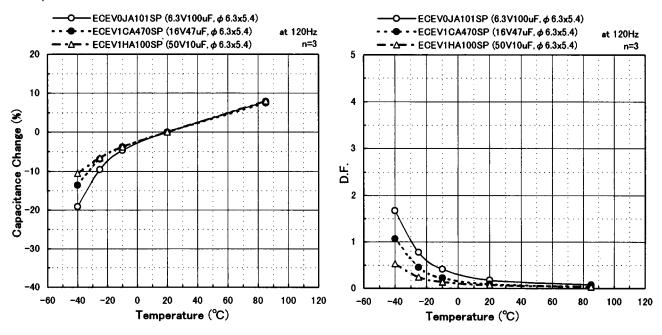


■ Frequency Characteristics



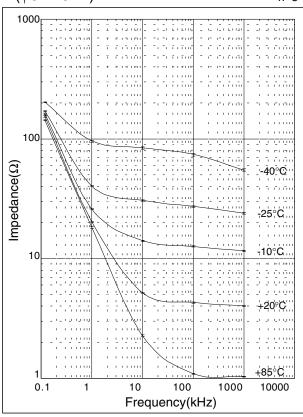


■ Temperature Characteristics

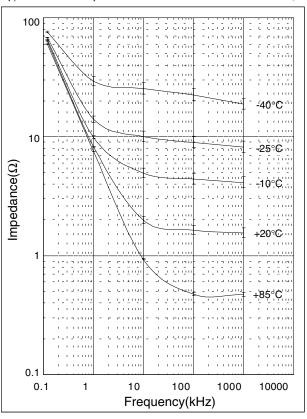


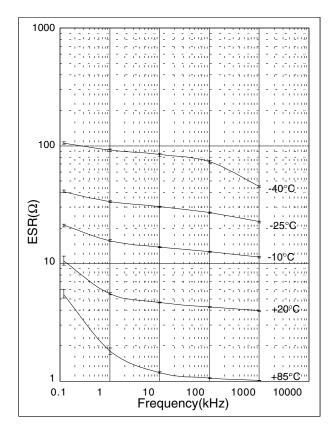
■ Temperature Characteristics

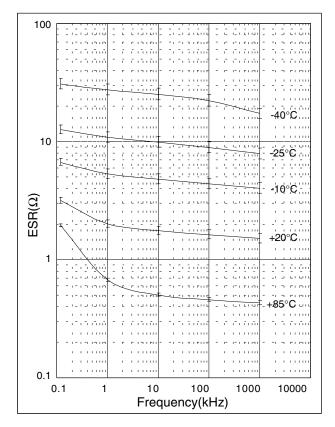
Parts No.;ECEV1VA100SR($35V10\mu F$) ($\phi 5 X 5.4$)



Parts No.;ECEV1VA220SP(35V 22 μ F) (ϕ 6.3 X 5.4)

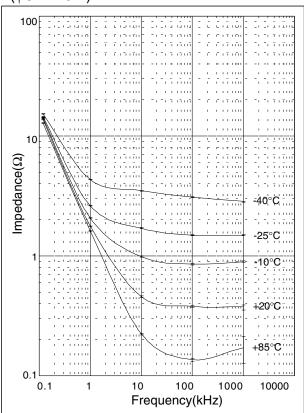


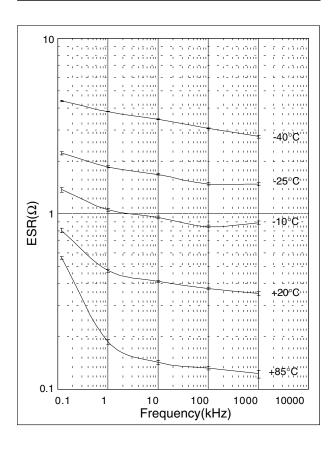




■ Temperature Characteristics

Parts No.;ECEV1EA101P(25V 100μF) (φ8 X 10.2)





Pre-fix	Suffix	Case Diameter	RoHS	Terminal		Reflow C	Condition	Reflow Chart
Pre-lix	Sullix	Case Diameter	Compliant	Finish	Pea	ak Temperature	Time above 200	Reliow Chart
	R	3mm to 5mm	No	Sn-Pb	240	for 5 seconds	20 seconds	(1) Fig.1
ECE-V	Р	6mm	No	Sn-Pb	240	for 5 seconds	20 seconds	(1) Fig.1
	Р	8mm to 10mm	No	Sn-Pb	230	for 5 seconds	20 seconds	(2) Fig.2
R	R	4mm to 5mm	No	Sn-Pb	240	for 5 seconds	20 seconds	(1) Fig.1
	Р	6mm	No	Sn-Pb	240	for 5 seconds	20 seconds	(1) Fig.1
	Р	8mm to 10mm	No	Sn-Pb	230	for 5 seconds	20 seconds	(2) Fig.2
EEV-	Q	12.5mm	Yes	Sn	230	for 5 seconds	20 seconds	(2) Fig.2 (Except for EB series)
	Q	12.511111	162	SII	230	ioi o seconos	20 Seconds	(3) Fig.3 (EB series only)
	М	16mm to 18mm	Yes	Sn	230	for 5 seconds	20 seconds	(2) Fig.2 (Except for EB series)
	IVI	TOTHIN TO TOTHIN	res	SII	230	ior 5 seconds	20 seconds	(3) Fig.3 (EB series only)
	R	3mm to 5mm	Yes	Sn-Bi	250	for 5 seconds	60 seconds	(4) Fig.4
EEE-	Р	6mm	Yes	Sn-Bi	250	for 5 seconds	60 seconds	(4) Fig.4
	Р	8mm to 10mm	Yes	Sn-Bi	235	for 5 seconds	60 seconds	(5) Fig.5

