

Surface Mount Type

Series: FK Type : V

- Features
 - Endurance: 2000 to 5000h at 105°C
 - Low impedance (40 to 60% less than FC series)
 - Miniaturized (30 to 50% less than FC series)
 - Vibration-proof product is available upon request. ($\phi 8 \leq$)
 - RoHS directive compliant (Parts No: EEV* $\phi 12.5 \leq$, EEE*)



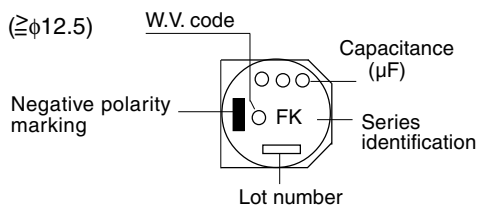
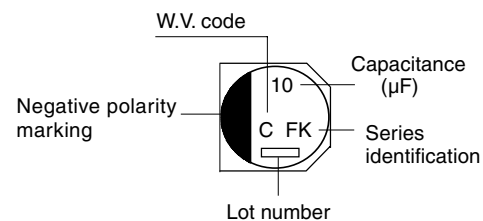
■ Specifications

Category temp. range	-55 to +105°C										
Rated W.V. Range	6.3 to 100V .DC										
Nominal Cap. Range	3.3 to 6800 μ F										
Capacitance Tolerance	± 20 % (120Hz/+20°C)										
DC Leakage Current	$I \leq 0.01 CV$ or $3(\mu A)$ After 2 minutes application of rated working voltage at +20°C. (Whichever is greater)										
tan δ	Please see the attached standard products list										
Characteristics at Low Temperature	W.V. (V)	6.3	10	16	25	35	50	63	80	100	(Impedance ratio at 120 Hz)
	Z(-25°C) / Z(+20°C)	2	2	2	2	2	2	2	2	2	
	Z(-40°C) / Z(+20°C)	3	3	3	3	3	3	3	3	3	
	Z(-55°C) / Z(+20°C)	4	4	4	3	3	3	3	3	3	
Endurance	After applying rated working voltage at +105 \pm 2°C for 2000 hours (\geq dia.12.5 and suffix "G" in dia.8 to 10 are 5000 hours) the capacitors shall meet the limits specified below. Post-test requirement at +20°C.										
	Capacitance change	± 30 % of initial measured value (Suffix "G" is 35%)									
	tan δ	≤ 200 % of initial specified value (Suffix "G" is 300%)									
	DC leakage current	\leq initial specified value									
Shelf Life	After storage for 1000 hours at +105 \pm 2°C with no voltage applied and then being stabilized 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 Soldering Heat	After reflow soldering (Refer to page 86 for recommended temperature profile) and then being stabilized at +20°C, capacitor shall meet the following limits.										
	Capacitance change	± 10 % of initial measured value									
	tan δ	\leq initial specified value									
	DC leakage current	\leq initial specified value									

■ Marking

Example. 16V10 μ F

Marking color : BLACK

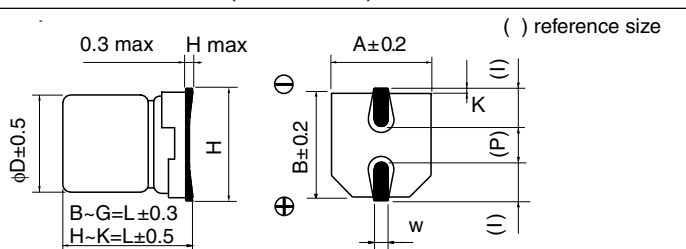


W.V. code

V	6.3	10	16	25	35
Code	j	A	C	E	V

V	50	63	80	100
Code	H	J	K	2A

■ Dimensions in mm (not to scale)



Size code	D	L	A,B	H max.	I	W	P	K
B	4.0	5.8	4.3	5.5	1.8	0.65 \pm 0.1	1.0	0.35 -0.20 to +0.15
C	5.0	5.8	5.3	6.5	2.2	0.65 \pm 0.1	1.5	0.35 -0.20 to +0.15
D	6.3	5.8	6.6	7.8	2.6	0.65 \pm 0.1	1.8	0.35 -0.20 to +0.15
D8	6.3	7.7	6.6	7.8	2.6	0.65 \pm 0.1	1.8	0.35 -0.20 to +0.15
E	8.0	6.2	8.3	9.5	3.4	0.65 \pm 0.1	2.2	0.35 -0.20 to +0.15
F	8.0	10.2	8.3	10.0	3.4	0.90 \pm 0.2	3.1	0.70 \pm 0.20
G	10.0	10.2	10.3	12.0	3.5	0.90 \pm 0.2	4.6	0.70 \pm 0.20
H13	12.5	13.5	13.5	15.0	4.7	0.90 \pm 0.3	4.4	0.70 \pm 0.30
J16	16.0	16.5	17.0	19.0	5.5	1.20 \pm 0.3	6.7	0.70 \pm 0.30
K16	18.0	16.5	19.0	21.0	6.7	1.20 \pm 0.3	6.7	0.70 \pm 0.30

■ Case size VS Capacitance, Impedance and Ripple current

Impedance;(Ω /100kHz,+20°C),
Ripple current;(mA r.m.s./100kHz+105°C)

Capacitance (μ F)	W.V.	6.3			10			16		
		Size	Impedance	Ripple current	Size	Impedance	Ripple current	Size	Impedance	Ripple current
10							B	1.35	90	
22		B	1.35	90	B	1.35	90	C(B)	0.7(1.35)	160(90)
33					C(B)	0.7(1.35)	160(90)			
47		C(B)	0.7(1.35)	160(90)				D(C)	0.36(0.7)	240(160)
68							D	0.36	240	
100		D(C)	0.36(0.7)	240(160)			D	0.36	240	
150					D	0.36	240	D8	0.34	280
220		D	0.36	240	D8	0.34	280	D8	0.34	280
330		D8	0.34	280	E	0.26	300	E	0.26	300
		E	0.26	300	⊙F	0.16	600	⊙F	0.16	600
470		⊙F	0.16	600	⊙F	0.16	600	⊙F	0.16	600
680					⊙F	0.16	600	⊙G	0.08	850
1000		⊙F	0.16	600	⊙G	0.08	850			
1500		⊙G	0.08	850				H13	0.06	1100
2200					H13	0.06	1100			
3300		H13	0.06	1100				J16	0.035	1800
4700					J16	0.035	1800	K16	0.033	2060
6800		J16	0.035	1800	K16	0.033	2060			

Capacitance (μ F)	W.V.	25			35			50		
		Size	Impedance	Ripple current	Size	Impedance	Ripple current	Size	Impedance	Ripple current
4.7					B	1.35	90	B	2.9	60
10		B	1.35	90	C(B)	0.7(1.35)	160(90)	D(C)	0.88(1.52)	165(85)
22		C	0.7	160	C	0.7	160	D	0.88	165
33		D(C)	0.36(0.7)	240(160)	D	0.36	240	D8	0.68	195
								E	0.68	195
47		D	0.36	240	D	0.36	240	E(D8)	0.68	195
68		D	0.36	240	D8	0.34	280			
100		D8	0.34	280	D8	0.34	280	⊙F	0.34	350
		E	0.26	300	⊙F	0.16	600			
150		⊙F	0.16	600	⊙F	0.16	600	⊙G	0.18	670
220		⊙F	0.16	600	⊙F	0.16	600	⊙G	0.18	670
330		⊙F	0.16	600	⊙G	0.08	850	H13	0.12	900
390								H13	0.12	900
470		⊙G	0.08	850	H13	0.06	1100	J16	0.073	1610
680					H13	0.06	1100	J16	0.073	1610
1000		H13	0.06	1100	J16	0.035	1800	J16	0.073	1610
1500					J16	0.035	1800			
2200		J16	0.035	1800						
3300		K16	0.033	2060						

Capacitance (μ F)	W.V.	63			80			100		
		Size	Impedance	Ripple current	Size	Impedance	Ripple current	Size	Impedance	Ripple current
3.3					C	5	25			
4.7		C	3	50	D	3	40			
10		D	1.5	80	D8	2.4	60			
					E	2.4	60			
22		D8	1.2	120	F	1.3	130	F	1.3	130
		E	1.2	120	F	1.3	130			
33		F	0.65	250	F	1.3	130	G	0.7	200
47		F	0.65	250	G	0.7	200	H13	0.32	500
68		F	0.65	250	H13	0.32	500	H13	0.32	500
100		G	0.35	400	H13	0.32	500	J16	0.17	793
150		H13	0.16	800	H13	0.32	500	J16	0.17	793
220		H13	0.16	800				K16	0.153	917
330					J16	0.17	793	K16	0.153	917
470		J16	0.082	1410	K16	0.153	917			
680		K16	0.080	1690						

(); Miniaturization type ⊙ Life time 5000h available upon request(suffix : G)

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Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size			Specification			Part No. (RoHS: not compliant)		Part No. (RoHS: compliant)		Min. Packaging Q'ty
		Dia. (mm)	Length (mm)	Size Code	Ripple current (100kHz) (+105°C) (mA)	Impe- dance (100kHz) (+20°C) (Ω)	tan δ (120Hz) (+20°C)		Reflow		Reflow	Taping (pcs)
6.3	22	4	5.8	B	90	1.35	0.26	EEVFK0J220R	(1)	EEEFK0J220R	(4)	2000
	47	4	5.8	B	90	1.35	0.26	EEVFK0J470UR	(1)	EEEFK0J470UR	(4)	2000
		5	5.8	C	160	0.70	0.26	EEVFK0J470R	(1)	EEEFK0J470R	(4)	1000
	100	5	5.8	C	160	0.70	0.26	EEVFK0J101UR	(1)	EEEFK0J101UR	(4)	1000
		6.3	5.8	D	240	0.36	0.26	EEVFK0J101P	(1)	EEEFK0J101P	(4)	1000
	220	6.3	5.8	D	240	0.36	0.26	EEVFK0J221P	(1)	EEEFK0J221P	(4)	1000
	330	6.3	7.7	D8	280	0.34	0.26	EEVFK0J331XP	(1)	EEEFK0J331XP	(4)	900
		8	6.2	E	300	0.26	0.26	EEVFK0J331P	(2)	EEEFK0J331P	(5)	1000
	470	8	10.2	F	600	0.16	0.26	EEVFK0J471P	(2)	EEEFK0J471P	(5)	500
	1000	8	10.2	F	600	0.16	0.26	EEVFK0J102P	(2)	EEEFK0J102P	(5)	500
	1500	10	10.2	G	850	0.08	0.26	EEVFK0J152P	(2)	EEEFK0J152P	(5)	500
3300	12.5	13.5	H13	1100	0.06	0.30			EEVFK0J332Q	(2)	200	
6800	16	16.5	J16	1800	0.035	0.36			EEVFK0J682M	(2)	125	
10	22	4	5.8	B	90	1.35	0.19	EEVFK1A220R	(1)	EEEFK1A220R	(4)	2000
	33	4	5.8	B	90	1.35	0.19	EEVFK1A330UR	(1)	EEEFK1A330UR	(4)	2000
		5	5.8	C	160	0.70	0.19	EEVFK1A330R	(1)	EEEFK1A330R	(4)	1000
	150	6.3	5.8	D	240	0.36	0.19	EEVFK1A151P	(1)	EEEFK1A151P	(4)	1000
	220	6.3	7.7	D8	280	0.34	0.19	EEVFK1A221XP	(1)	EEEFK1A221XP	(4)	900
		8	6.2	E	300	0.26	0.19	EEVFK1A221P	(2)	EEEFK1A221P	(5)	1000
	330	8	10.2	F	600	0.16	0.19	EEVFK1A331P	(2)	EEEFK1A331P	(5)	500
	470	8	10.2	F	600	0.16	0.19	EEVFK1A471P	(2)	EEEFK1A471P	(5)	500
	680	8	10.2	F	600	0.16	0.19	EEVFK1A681P	(2)	EEEFK1A681P	(5)	500
	1000	10	10.2	G	850	0.08	0.19	EEVFK1A102P	(2)	EEEFK1A102P	(5)	500
	2200	12.5	13.5	H13	1100	0.06	0.21			EEVFK1A222Q	(2)	200
4700	16	16.5	J16	1800	0.035	0.25			EEVFK1A472M	(2)	125	
6800	18	16.5	K16	2060	0.033	0.29			EEVFK1A682M	(2)	125	
16	10	4	5.8	B	90	1.35	0.16	EEVFK1C100R	(1)	EEEFK1C100R	(4)	2000
	22	4	5.8	B	90	1.35	0.16	EEVFK1C220UR	(1)	EEEFK1C220UR	(4)	2000
		5	5.8	C	160	0.70	0.16	EEVFK1C220R	(1)	EEEFK1C220R	(4)	1000
	47	5	5.8	C	160	0.70	0.16	EEVFK1C470UR	(1)	EEEFK1C470UR	(4)	1000
		6.3	5.8	D	240	0.36	0.16	EEVFK1C470P	(1)	EEEFK1C470P	(4)	1000
	68	6.3	5.8	D	240	0.36	0.16	EEVFK1C680P	(1)	EEEFK1C680P	(4)	1000
	100	6.3	5.8	D	240	0.36	0.16	EEVFK1C101P	(1)	EEEFK1C101P	(4)	1000
	150	6.3	7.7	D8	280	0.34	0.16	EEVFK1C151XP	(1)	EEEFK1C151XP	(4)	900
	220	6.3	7.7	D8	280	0.34	0.16	EEVFK1C221XP	(1)	EEEFK1C221XP	(4)	900
		8	6.2	E	300	0.26	0.16	EEVFK1C221P	(2)	EEEFK1C221P	(5)	1000
	330	8	10.2	F	600	0.16	0.16	EEVFK1C331P	(2)	EEEFK1C331P	(5)	500
	470	8	10.2	F	600	0.16	0.16	EEVFK1C471P	(2)	EEEFK1C471P	(5)	500
	680	10	10.2	G	850	0.08	0.16	EEVFK1C681P	(2)	EEEFK1C681P	(5)	500
1500	12.5	13.5	H13	1100	0.06	0.16			EEVFK1C152Q	(2)	200	
3300	16	16.5	J16	1800	0.035	0.20			EEVFK1C332M	(2)	125	
4700	18	16.5	K16	2060	0.033	0.22			EEVFK1C472M	(2)	125	
25	10	4	5.8	B	90	1.35	0.14	EEVFK1E100R	(1)	EEEFK1E100R	(4)	2000
	22	5	5.8	C	160	0.7	0.14	EEVFK1E220R	(1)	EEEFK1E220R	(4)	1000

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

Reflow profiles can be found on page 86.

Endurance: 105°C 2000h - 5000h

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■ Standard Products

W.V.	Cap. (±20%) (μF)	Case size			Specification			Part No. (RoHS: not compliant)	Reflow	Part No. (RoHS: compliant)	Reflow	Min. Packaging Qty	Taping (pcs)
		Dia. (mm)	Length (mm)	Size Code	Ripple current (100kHz) (+105°C) (mA)	Impe- dance (100kHz) (+20°C) (Ω)	tan δ (120Hz) (+20°C)						
25	33	5	5.8	C	160	0.7	0.14	EEVFK1E330UR	(1)	EEEFK1E330UR	(4)	1000	
		6.3	5.8	D	240	0.36	0.14	EEVFK1E330P	(1)	EEEFK1E330P	(4)	1000	
	47	6.3	5.8	D	240	0.36	0.14	EEVFK1E470P	(1)	EEEFK1E470P	(4)	1000	
	68	6.3	5.8	D	240	0.36	0.14	EEVFK1E680P	(1)	EEEFK1E680P	(4)	1000	
	100	6.3	7.7	D8	280	0.34	0.14	EEVFK1E101XP	(1)	EEEFK1E101XP	(4)	900	
		8	6.2	E	300	0.26	0.14	EEVFK1E101P	(2)	EEEFK1E101P	(5)	1000	
	150	8	10.2	F	600	0.16	0.14	EEVFK1E151P	(2)	EEEFK1E151P	(5)	500	
	220	8	10.2	F	600	0.16	0.14	EEVFK1E221P	(2)	EEEFK1E221P	(5)	500	
	330	8	10.2	F	600	0.16	0.14	EEVFK1E331P	(2)	EEEFK1E331P	(5)	500	
	470	10	10.2	G	850	0.08	0.14	EEVFK1E471P	(2)	EEEFK1E471P	(5)	500	
	1000	12.5	13.5	H13	1100	0.06	0.14		(2)	EEVFK1E102Q	(2)	200	
	2200	16	16.5	J16	1800	0.035	0.16		(2)	EEVFK1E222M	(2)	125	
3300	18	16.5	K16	2060	0.033	0.18		(2)	EEVFK1E332M	(2)	125		
35	4.7	4	5.8	B	90	1.35	0.12	EEVFK1V4R7R	(1)	EEEFK1V4R7R	(4)	2000	
	10	4	5.8	B	90	1.35	0.12	EEVFK1V100UR	(1)	EEEFK1V100UR	(4)	2000	
		5	5.8	C	160	0.70	0.12	EEVFK1V100R	(1)	EEEFK1V100R	(4)	1000	
	22	5	5.8	C	160	0.70	0.12	EEVFK1V220R	(1)	EEEFK1V220R	(4)	1000	
	33	6.3	5.8	D	240	0.36	0.12	EEVFK1V330P	(1)	EEEFK1V330P	(4)	1000	
	47	6.3	5.8	D	240	0.36	0.12	EEVFK1V470P	(1)	EEEFK1V470P	(4)	1000	
	68	6.3	7.7	D8	280	0.34	0.12	EEVFK1V680XP	(1)	EEEFK1V680XP	(4)	900	
	100	6.3	7.7	D8	280	0.34	0.12	EEVFK1V101XP	(1)	EEEFK1V101XP	(4)	900	
		8	10.2	F	600	0.16	0.12	EEVFK1V101P	(2)	EEEFK1V101P	(5)	500	
	150	8	10.2	F	600	0.16	0.12	EEVFK1V151P	(2)	EEEFK1V151P	(5)	500	
	220	8	10.2	F	600	0.16	0.12	EEVFK1V221P	(2)	EEEFK1V221P	(5)	500	
	330	10	10.2	G	850	0.08	0.12	EEVFK1V331P	(2)	EEEFK1V331P	(5)	500	
	470	12.5	13.5	H13	1100	0.06	0.12			EEVFK1V471Q	(2)	200	
	680	12.5	13.5	H13	1100	0.06	0.12			EEVFK1V681Q	(2)	200	
	1000	16	16.5	J16	1800	0.035	0.12			EEVFK1V102M	(2)	125	
1500	16	16.5	J16	1800	0.035	0.12			EEVFK1V152M	(2)	125		
50	4.7	4	5.8	B	60	2.9	0.10	EEVFK1H4R7R	(1)	EEEFK1H4R7R	(4)	2000	
	10	5	5.8	C	85	1.52	0.10	EEVFK1H100UR	(1)	EEEFK1H100UR	(4)	1000	
		6.3	5.8	D	165	0.88	0.10	EEVFK1H100P	(1)	EEEFK1H100P	(4)	1000	
	22	6.3	5.8	D	165	0.88	0.10	EEVFK1H220P	(1)	EEEFK1H220P	(4)	1000	
	33	6.3	7.7	D8	195	0.68	0.10	EEVFK1H330XP	(1)	EEEFK1H330XP	(4)	900	
		8	6.2	E	195	0.68	0.10	EEVFK1H330P	(2)	EEEFK1H330P	(5)	1000	
	47	6.3	7.7	D8	195	0.68	0.10	EEVFK1H470XP	(1)	EEEFK1H470XP	(4)	900	
		8	6.2	E	195	0.68	0.10	EEVFK1H470P	(2)	EEEFK1H470P	(5)	1000	
	100	8	10.2	F	350	0.34	0.10	EEVFK1H101P	(2)	EEEFK1H101P	(5)	500	
	150	10	10.2	G	670	0.18	0.10	EEVFK1H151P	(2)	EEEFK1H151P	(5)	500	
	220	10	10.2	G	670	0.18	0.10	EEVFK1H221P	(2)	EEEFK1H221P	(5)	500	
	330	12.5	13.5	H13	900	0.12	0.10			EEVFK1H331Q	(2)	200	
	390	12.5	13.5	H13	900	0.12	0.10			EEVFK1H391Q	(2)	200	
	470	16	16.5	J16	1610	0.073	0.10			EEVFK1H471M	(2)	125	
	680	16	16.5	J16	1610	0.073	0.10			EEVFK1H681M	(2)	125	
1000	16	16.5	J16	1610	0.073	0.10			EEVFK1H102M	(2)	125		

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

Reflow profiles can be found on page 86.

Endurance: 105°C 2000h - 5000h

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Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size			Specification			Part No. (RoHS: not compliant)		Part No. (RoHS: compliant)		Min. Packaging Q'ty
		Dia. (mm)	Length (mm)	Size Code	Ripple current (100kHz) (+105°C) (mA)	Impe- dance (100kHz) (+20°C) (Ω)	tan δ (120Hz) (+20°C)		Reflow		Reflow	Taping (pcs)
63	4.7	5	5.8	C	50	3.0	0.08	EEVFK1J4R7R	(1)	EEEFK1J4R7R	(4)	1000
	10	6.3	5.8	D	80	1.5	0.08	EEVFK1J100P	(1)	EEEFK1J100P	(4)	1000
	22	6.3	7.7	D8	120	1.2	0.08	EEVFK1J220XP	(1)	EEEFK1J220XP	(4)	900
		8	6.2	E	120	1.2	0.08	EEVFK1J220P	(2)	EEEFK1J220P	(5)	1000
	33	8	10.2	F	250	0.65	0.08	EEVFK1J330P	(2)	EEEFK1J330P	(5)	500
	47	8	10.2	F	250	0.65	0.08	EEVFK1J470P	(2)	EEEFK1J470P	(5)	500
	68	8	10.2	F	250	0.65	0.08	EEVFK1J680UP	(2)	EEEFK1J680UP	(5)	500
	100	10	10.2	G	400	0.35	0.08	EEVFK1J101P	(2)	EEEFK1J101P	(5)	500
	150	12.5	13.5	H13	800	0.16	0.08			EEVFK1J151Q	(2)	200
	220	12.5	13.5	H13	800	0.16	0.08			EEVFK1J221Q	(2)	200
	470	16	16.5	J16	1410	0.082	0.08			EEVFK1J471M	(2)	125
680	18	16.5	K16	1690	0.08	0.08			EEVFK1J681M	(2)	125	
80	3.3	5	5.8	C	25	5.0	0.08	EEVFK1K3R3R	(1)	EEEFK1K3R3R	(4)	1000
	4.7	6.3	5.8	D	40	3.0	0.08	EEVFK1K4R7P	(1)	EEEFK1K4R7P	(4)	1000
	10	6.3	7.7	D8	60	2.4	0.08	EEVFK1K100XP	(1)	EEEFK1K100XP	(4)	900
		8	6.2	E	60	2.4	0.08	EEVFK1K100P	(2)	EEEFK1K100P	(5)	1000
	22	8	10.2	F	130	1.3	0.08	EEVFK1K220P	(2)	EEEFK1K220P	(5)	500
	33	8	10.2	F	130	1.3	0.08	EEVFK1K330P	(2)	EEEFK1K330P	(5)	500
	47	10	10.2	G	200	0.7	0.08	EEVFK1K470P	(2)	EEEFK1K470P	(5)	500
	68	12.5	13.5	H13	500	0.32	0.08			EEVFK1K680Q	(2)	200
	100	12.5	13.5	H13	500	0.32	0.08			EEVFK1K101Q	(2)	200
	150	12.5	13.5	H13	500	0.32	0.08			EEVFK1K151Q	(2)	200
	330	16	16.5	J16	793	0.17	0.08			EEVFK1K331M	(2)	125
470	18	16.5	K16	917	0.153	0.08			EEVFK1K471M	(2)	125	
100	22	8.0	10.2	F	130	1.3	0.07	EEVFK2A220P	(2)	EEEFK2A220P	(5)	500
	33	10	10.2	G	200	0.7	0.07	EEVFK2A330P	(2)	EEEFK2A330P	(5)	500
	47	12.5	13.5	H13	500	0.32	0.07			EEVFK2A470Q	(2)	200
	68	12.5	13.5	H13	500	0.32	0.07			EEVFK2A680Q	(2)	200
	100	16	16.5	J16	793	0.17	0.07			EEVFK2A101M	(2)	125
	150	16	16.5	J16	793	0.17	0.07			EEVFK2A151M	(2)	125
	220	18	16.5	K16	917	0.153	0.07			EEVFK2A221M	(2)	125
	330	18	16.5	K16	917	0.153	0.07			EEVFK2A331M	(2)	125

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

Reflow profiles can be found on page 86.

Endurance: 105°C 2000h - 5000h

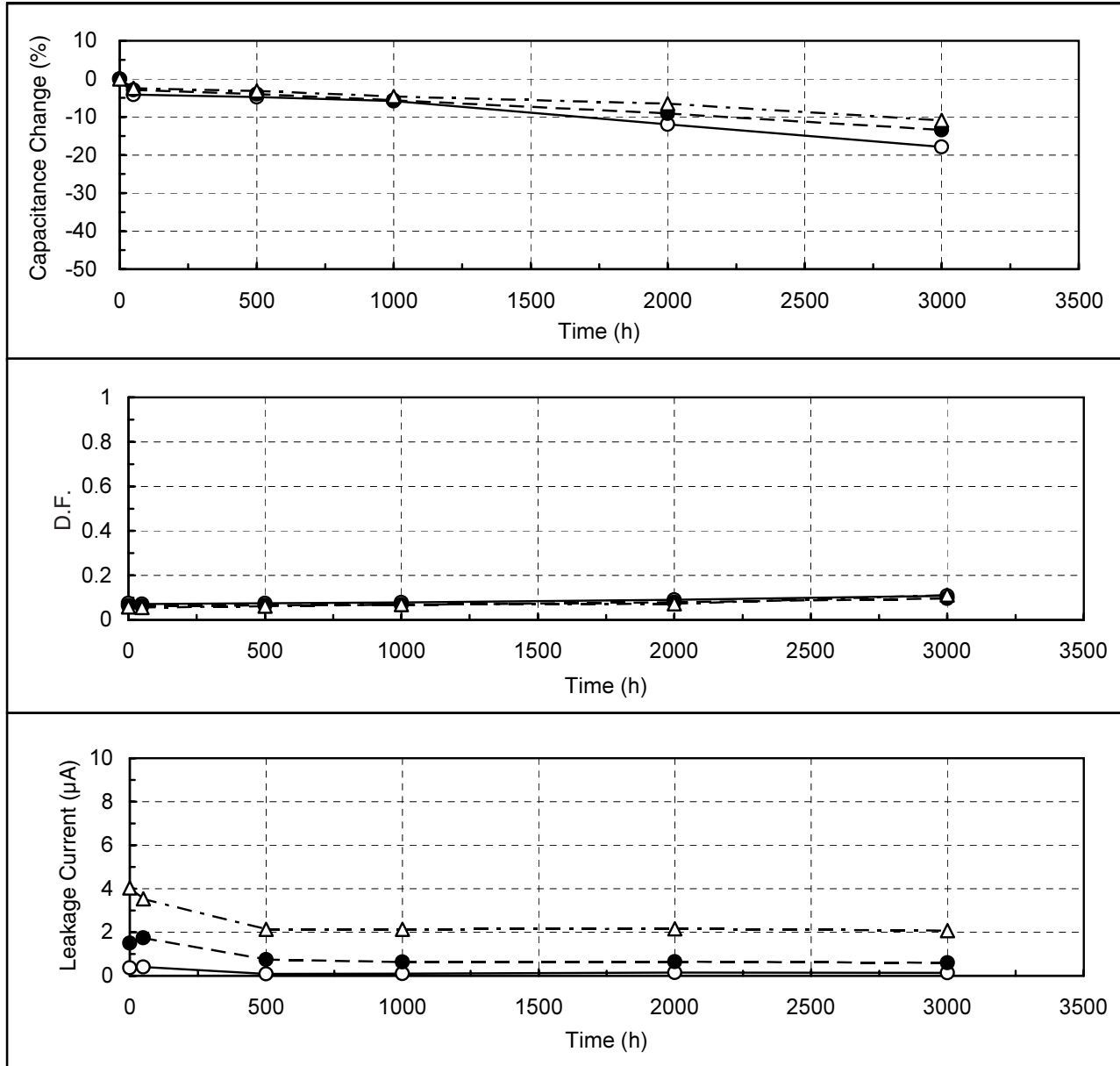
Frequency Correction Factor of Rated Ripple Current

	Frequency (Hz)				
	50,60	120	1k	10k	100k~
coefficient	0.70	0.75	0.90	0.95	1.00

■ Endurance

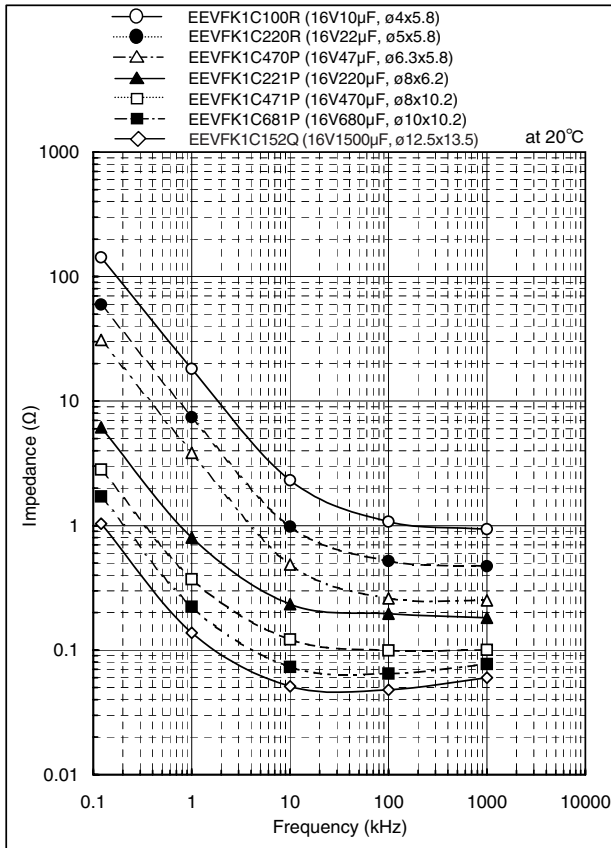
- EEVFK0J220R (6.3V22 μ F, ϕ 4x5.8)
- EEVFK0J101P (6.3V100 μ F, ϕ 6.3x5.8)
- △ EEVFK0J152P (6.3V1500 μ F, ϕ 10x10.2)

at 105°C

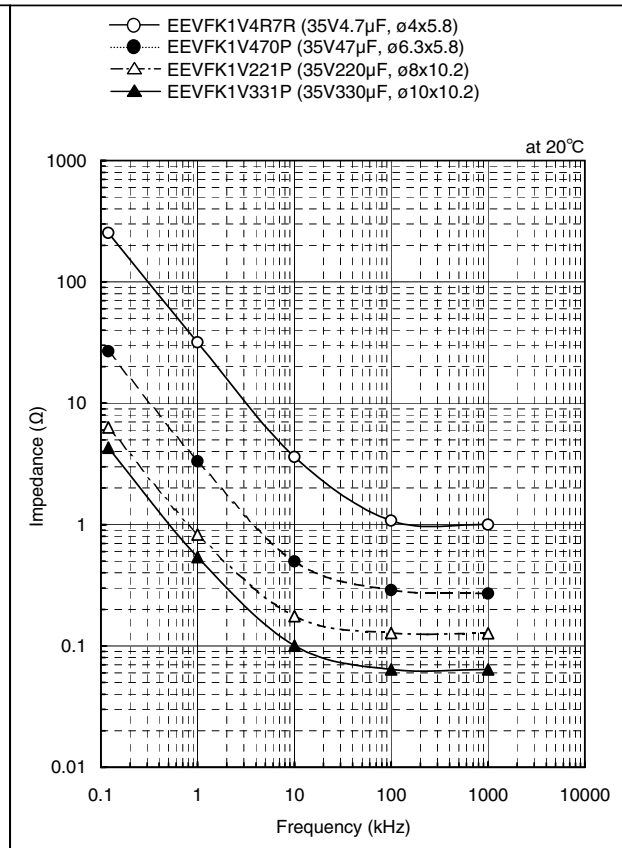


■ Frequency Characteristics (Impedance)

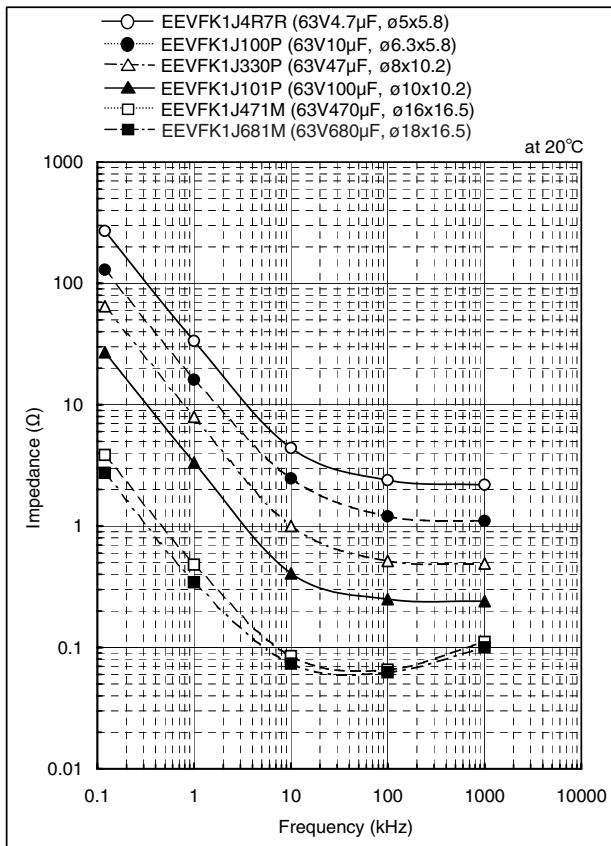
● 16VV



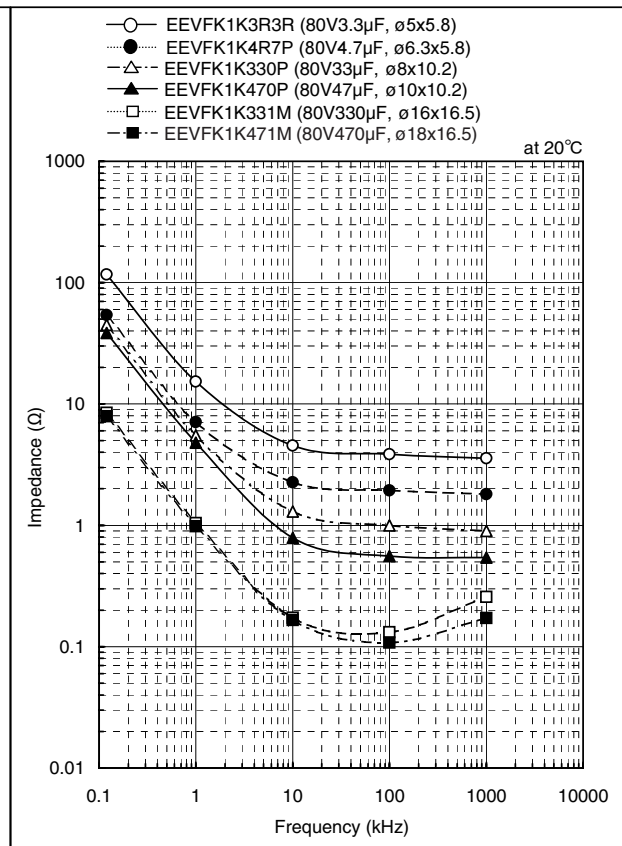
● 35VV



● 63VV



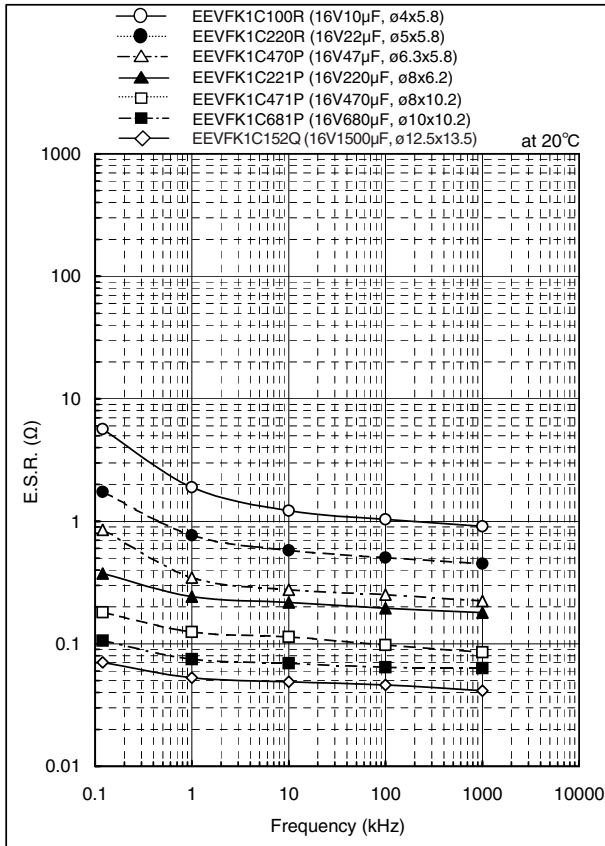
● 80VV



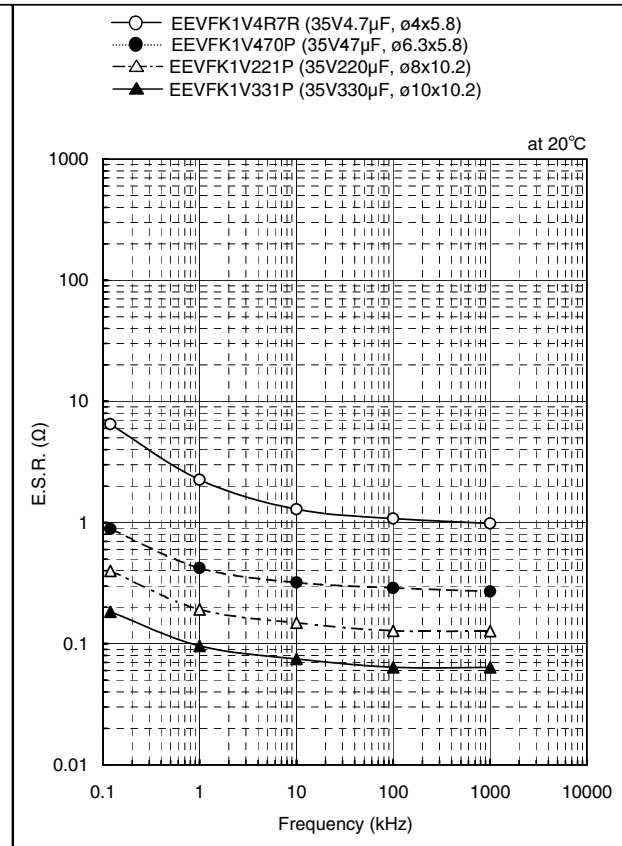
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Whenever a doubt about safety arises from this product, please contact us immediately for technical consultation.

Frequency Characteristics (ESR)

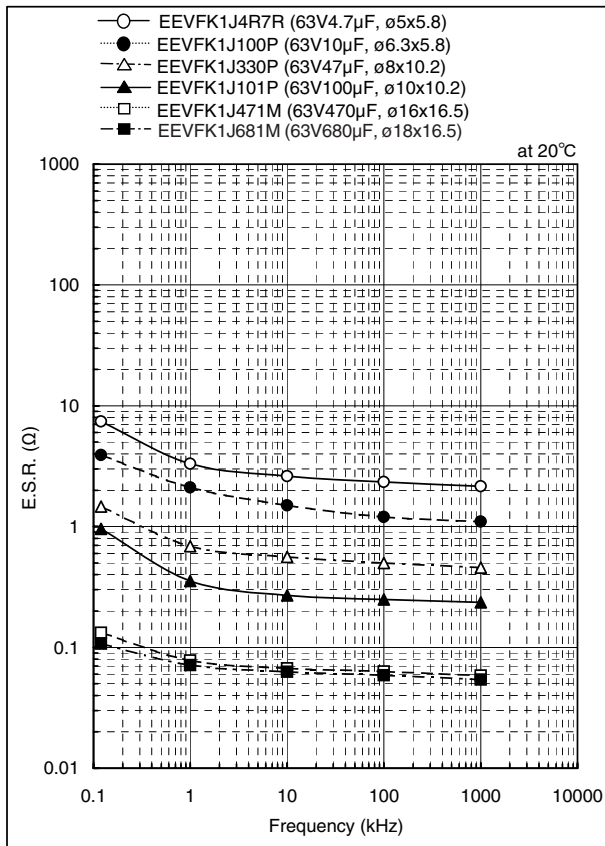
● 16WV



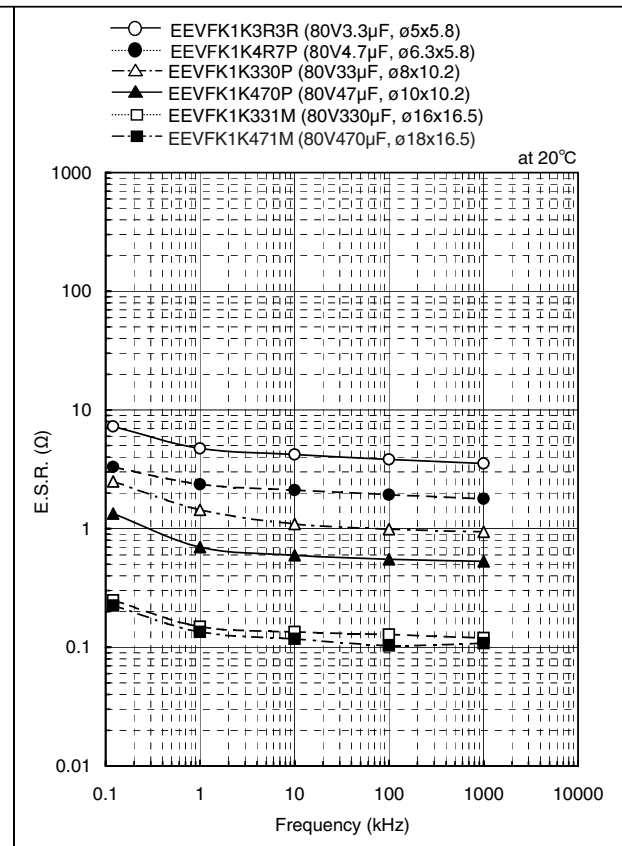
● 35WV



● 63WV



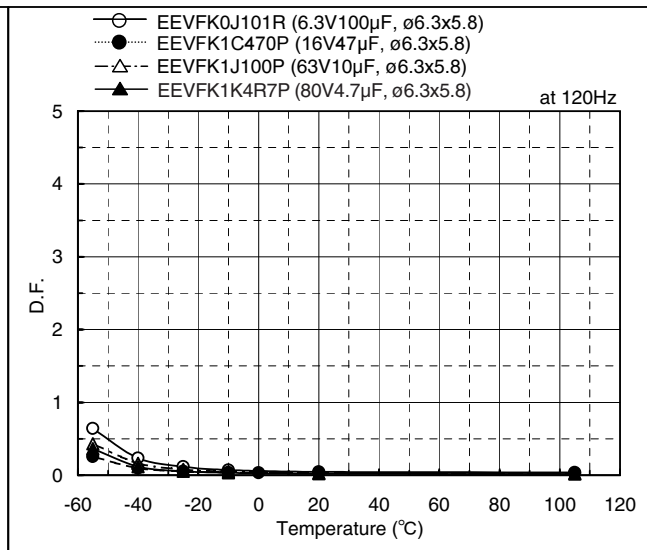
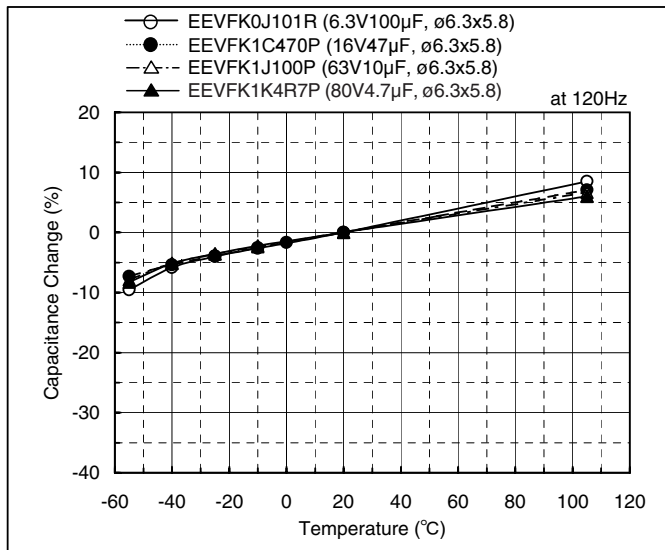
● 80WV



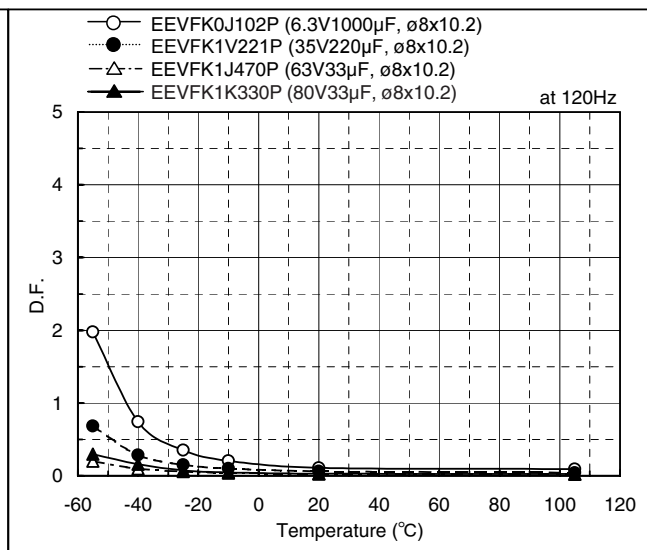
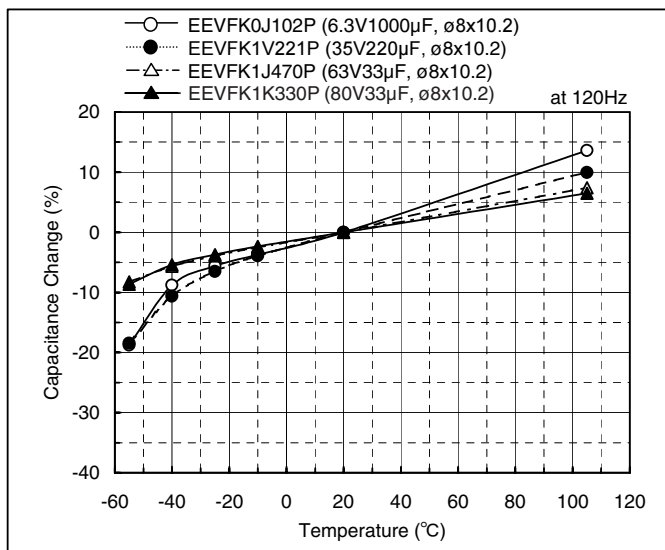
Design and specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use. Whenever a doubt about safety arises from this product, please contact us immediately for technical consultation.

Temperature Characteristics

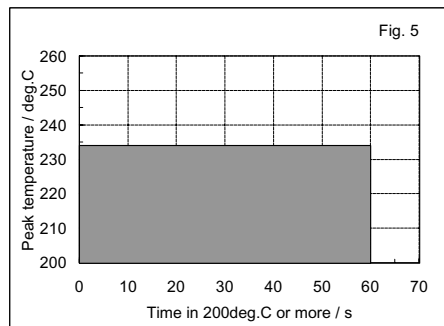
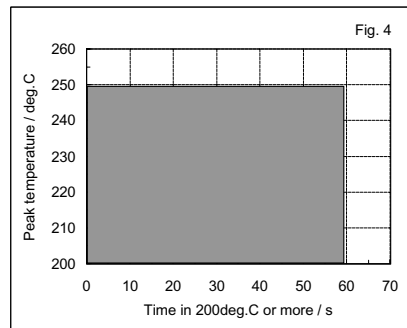
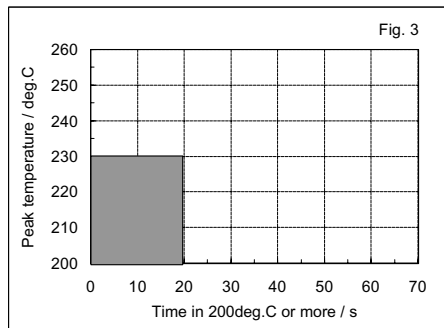
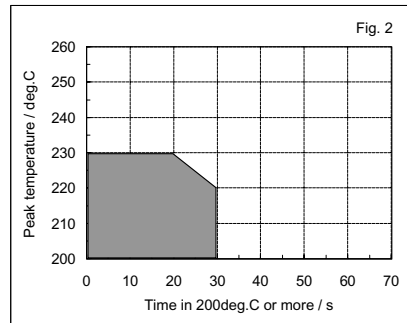
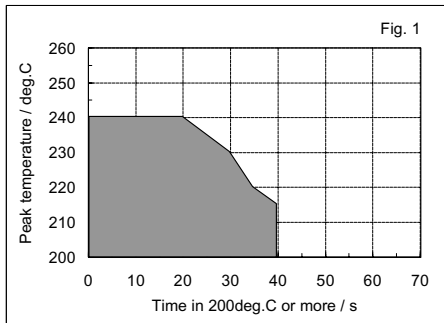
● $\phi 6.3 \times 5.8$



● $\phi 8 \times 10.2$



Pre-fix	Suffix	Case Diameter	RoHS Compliant	Terminal Finish	Reflow Condition		Reflow Chart
					Peak Temperature	Time above 200	
ECE-V	R	3mm to 5mm	No	Sn-Pb	240 for 5 seconds	20 seconds	(1) Fig.1
	P	6mm	No	Sn-Pb	240 for 5 seconds	20 seconds	(1) Fig.1
	P	8mm to 10mm	No	Sn-Pb	230 for 5 seconds	20 seconds	(2) Fig.2
EEV-	R	4mm to 5mm	No	Sn-Pb	240 for 5 seconds	20 seconds	(1) Fig.1
	P	6mm	No	Sn-Pb	240 for 5 seconds	20 seconds	(1) Fig.1
	P	8mm to 10mm	No	Sn-Pb	230 for 5 seconds	20 seconds	(2) Fig.2
	Q	12.5mm	Yes	Sn	230 for 5 seconds	20 seconds	(2) Fig.2 (Except for EB series) (3) Fig.3 (EB series only)
	M	16mm to 18mm	Yes	Sn	230 for 5 seconds	20 seconds	(2) Fig.2 (Except for EB series) (3) Fig.3 (EB series only)
EEE-	R	3mm to 5mm	Yes	Sn-Bi	250 for 5 seconds	60 seconds	(4) Fig.4
	P	6mm	Yes	Sn-Bi	250 for 5 seconds	60 seconds	(4) Fig.4
	P	8mm to 10mm	Yes	Sn-Bi	235 for 5 seconds	60 seconds	(5) Fig.5



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