# Surface Mount Type

Series: FK Type: V

Country of Origin

Japan

Features Endurance: 2000 to 5000h at105°C

Low impedance (40 to 60% less than FCseries) Miniaturization(30 to 50% less than FC series)

Vibration-proof product is available upon request (48 ≤) RoHS directive compliant(Parts No:EEV+ ¢12.5 ≤,EEE+)



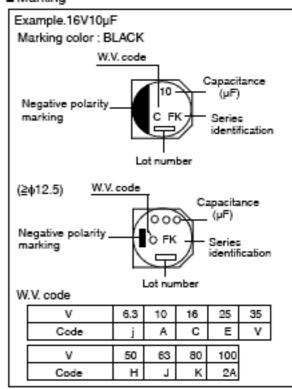


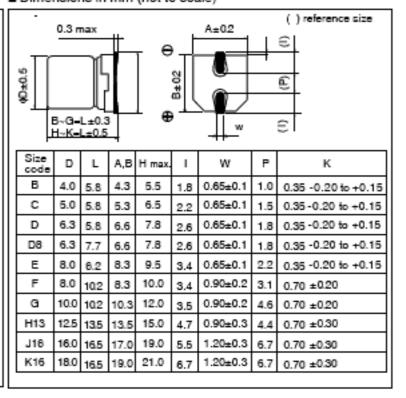
#### Specifications

Category temp. range				-55 to	+10	5ºC							
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 ≤ 0.01 CV or 3(μA)	I ≦ 0.01 CV or 3(μA) After 2 minutes application of rated working voltage at +20°C. (Whichever is greater)											
tan 8		Please see the attached standard products list											
	W.V. (V)	6.3	10	16	25	35	50	63	80	100			
Characteristics	Z(-25°C) / Z(+20°C)	2	2	2	2	2	2	2	2	2	(Impedance ratio		
at Low Temperature	Z(-40°C)/Z(+20°C)	3	3	3	3	3	3	3	3	3	at 120 Hz)		
	Z(-55°C)/ Z(+20°C)	4	4	4	3	3	3	3	3	3			
Endurance	After the life with DC rated working voltage at +105±2°C for 2000 hours (≧ dia.12.5 and suffix iGi india.8 to 10 are 5000hours)the capacitors shall meet the limits specified below. post-test requirement at +20°C.												
	Capacitance char	ige	±30% of initial measured value (Suffix "G" is 35%)										
	tan 8		≦200 % of initial specified value (Suffix "G" is 300%)										
	DC leakage curre	nt :	≦initial specified value										
Shelf Life	After storage for 1 at +20°C, capacito										en being stabilized oltage treatment)		
	After reflow solder being stabilized at										re profile.) and then		
Resistance to Soldering Heat	Capacitance char	nge	±10% (	of initia	al mea	sured v	/alue						
Soldering Heat	tan δ		≦initial	specifi	ied val	ue							
	DC leakage curre	nt	≦initial	specifi	ied val	ue							

#### ■ Marking

#### ■ Dimensions in mm (not to scale)





■ Case size VS Capacitance, Impedance and Ripple current

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

W.V.		6.3			10		16					
Capacitance (µF)	Size	Impedance	Ripple current	Size	Impedance	Ripple current	Size	Impedance	Ripple current			
10							В	1.35	90			
22	В	1.35	90	В	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	0.38	240			
100	D(C)	0.36(0.7)	240(160)					0.38	240			
150				D	0.38	240	D8	0.34	280			
220	D	0.38	240	D8	0.34	280	DB	0.34	280			
				E	0.26	300	E	0.26	300			
330	_D8	0.34	280	⊚F	0.16	600	⊚F	0.16	600			
	E	0.28	300						600			
470	⊚F	0.16	600	⊚F	0.16	600	⊚F	0.16	600 850			
680				⊚F	0.16	600	⊚ <b>G</b>	0.08	850			
1000	@F	0.16	600 850	@ <b>G</b>	0.08	850			1100			
1500	⊚ <b>G</b>	0.08	850	1140	0.06	4400	H13	0.08	1100			
2200	1140	2.00	1100	H13	0.06	1100	14.5	0.035	1800			
3300	H13	0.08	1100	J16	0.035	1800	J16 K16	0.033	2060			
4700	J16	0.035	1800	K16		2060	K10	0.033	2000			
6800	0.0		1000	1110	0.033	2000						
W.V.		25	Ripple			Ripple		50	Ripple			
Capacitance (uF)	Size	Impedance	current	Size	Impedance	current	Size	Impedance	current			
4.7				В	1.35	90	В	2.9	60			
10	В	1.35	90	C(B)	0.7(1.35)	160(90)	D(C)	0.88(1.52)	165(85)			
22	С	0.7	160	С	0.7	160	D	0.88	165			
33	D(C)	0.36(0.7)	240(160)	D	0.38	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	⊚ <b>g</b>	0.18	670			
220	@F	0.16	600	⊚F	0.16	600	⊚ <b>G</b>	0.18	670			
330	⊚F	0.16	600	© <b>G</b>	0.08	850	H13	0.12	900			
390	@0	0.00			0.00		H13	0.12	900			
470 680	⊚ <b>g</b>	0.08	850	H13	0.08	1100	J16	0.073	1610 1610			
1000	H13	0.06	1100	H13	0.035	1100 1800	J16	0.073	1610			
1500	1110	0.00	1100	J16	0.035	1800		0.070	1010			
2200	J16	0.035	1800	010	0.000							
3300	K18	0.033	2060									
W.V.	1110	63		<del></del>	80		<del></del>	100				
Capacitance (µF)	Size	Impedance	Ripple current	Size	Impedance	Ripple current	Size	Impedance	Ripple current			
3.3			-2774	С	5	25						
4.7	С	3	50	D		40						
					3	60	_					
10	D	1.5	80	D8	2.4							
				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	а	0.7	200			
47	F	0.65	250	a	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			
	H13	0.16	800		0.02	500						
220	1113	0.10	000	14.0		793	K16	0.153	917			
330				J16	0.17		K16	0.153	917			
470	J16	0.082	1410	K18	0.153	917						
680	K16	0.080	1690									
();Miniaturization	tune	@Life time 500	Oh available und	on remu	sch/cuffix : (3)							

### ■ Standard Products

- Ola	naara				-	nacificati	on	D IN		D . N		Min.
W.V. Cap.	Case siz			Specification Ripple Impe- tan 8			Part No. (RoHS:	Part No. (RoHS:		Packaging		
	(±20%)	Dia.	Length	Size Code	current (100kHz)	dance (100kHz)	tan δ (120Hz)	not compliant)	Re	compliant)	Re	Q'ty Taping
(V)	(µF)	(mm)	(mm)		(+105°C) (m A)	(+20°C) (Ω)	(+20°C)		Reflow		Reflow	(pcs)
	22	4	5.8	В	90	1.35	0.26	EEVFK0J220R	(1)	EEEFK0J220R	(4)	2000
	47	4	5.8	В	90	1.35	0.26	EEVFK0J470UR	(1)	EEEFK0J470UR	(4)	2000
	47	5	5.8	С	160	0.70	0.26	EEVFK0J470R	(1)	EEEFK0J470R	(4)	1000
	100	5	5.8	С	160	0.70	0.26	EEVFK0J101UR	(1)	EEEFK0J101UR	(4)	1000
	100	6.3	5.8	D	240	0.36	0.26	EEVFK0J101P	(1)	EEEFK0J101P	(4)	1000
6.3	220	6.3	5.8	D	240	0.36	0.26	EEVFK0J221P	(1)	EEEFK0J221P	(4)	1000
0.5	000	6.3	7.7	D8	280	0.34	0.26	EEVFK0J331XP	(1)	EEEFK0J331XP	(4)	900
	330	8	6.2	Е	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
	22	4	5.8	В	90	1.35	0.19	EEVFK1A220R	(1)	EEEFK1A220R	(4)	2000
		4	5.8	В	90	1.35	0.19	EEVFK1A330UR	(1)	EEEFK1A330UR	(4)	2000
	33	5	5.8	С	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
	000	6.3	7.7	D8	280	0.34	0.19	EEVFK1A221XP	(1)	EEEFK1A221XP	(4)	900
10	220	8	6.2	Е	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
	10	4	5.8	В	90	1.35	0.16	EEVFK1C100R	(1)	EEEFK1C100R	(4)	2000
	22	4	5.8	В	90	1.35	0.16	EEVFK1C220UR	(1)	EEEFK1C220UR	(4)	2000
		5	5.8	С	160	0.70	0.16	EEVFK1C220R	(1)	EEEFK1C220R	(4)	1000
	47	5	5.8	С	160	0.70	0.16	EEVFK1C470UR	(1)	EEEFK1C470UR	(4)	1000
	47	6.3	5.8	D	240	0.36	0.16	EEVFK1C470P	(1)	EEEFK1C470P	(4)	1000
16	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
	220	8	6.2	Е	300	0.26	0.16	EEVFK1C221P	(2)	EEEFK1C221P	(5)	1000
	330	8	10.2	F	600	0.16	0.16	EEVFK1C331P	(2)		(5)	500
	470	8	10.2	F	600	0.16	0.16	EEVFK1C471P	(2)		(5)	500
	680	10	10.2	G	850	0.08	0.16	EEVFK1C681P	(2)		(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	В	90	1.35	0.14	EEVFK1E100R	(1)		(4)	2000
25	22	5	5.8	С	160	0.7	0.14	EEVFK1E220R	(1)		(4)	1000
<del></del>				Tarley and		of our Ca	4 - 1	Endurance: 2000 t				

The taping dimension are explained on p.187 of our Catalog. Please use it as a reference guide. Reflow Profile(Fig-1 to Fig-5) listed in a last page.

Endurance: 2000 to 5000h at 105°C

■ Sta	andard	Prod	ucts									
	0	С	ase siz	:e	Sp	ecificatio	on	Part No.		Part No.		Min. Packaging
W.V.	Cap. (±20%)	Dia.	Length	Size Code	Ripple current (100kHz)	Impe- dance (100kHz)	tan δ (120Hz)	(RoHS: not compliant)	٦ پر	(RoHS: compliant)		Q'ty Taping
	(μF)	(mm)	(mm)		(+105°C) (m A)	(+20°C) (Ω)	(+20°C)		Reflow		Reflow	(pcs)
	33	5	5.8	С	160	0.7	0.14	EEVFK1E330UR	(1)	EEEFK1E330UR	(4)	1000
	33	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
25	100	8	6.2	Е	300	0.26	0.14	EEVFK1E101P	(2)	EEEFK1E101P	(5)	1000
25	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
	4.7	4	5.8	В	90	1.35	0.12	EEVFK1V4R7R	(1)	EEEFK1V4R7R	(4)	2000
•	10	4	5.8	В	90	1.35	0.12	EEVFK1V100UR	(1)	EEEFK1V100UR	(4)	2000
		5	5.8	С	160	0.70	0.12	EEVFK1V100R	(1)	EEEFK1V100R	(4)	1000
•	22	5	5.8	С	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
35		6.3	7.7	 D8	280	0.34	0.12	EEVFK1V101XP	(1)	EEEFK1V101XP	(4)	900
	100	8	10.2	F	600	0.34	0.12	EEVFK1V101AF	(2)	EEEFK1V101AF	(5)	500
•	150	8	10.2	F	600	0.16	0.12	EEVFK1V151P	(2)	EEEFK1V151P	(5)	500
	150 220	8	10.2	F	600	0.16	0.12		(2)		(5)	
	330	10	10.2				0.12	EEVFK1V221P EEVFK1V331P	(2)	EEEFK1V221P	(5)	500
	470			G	850 1100	0.08	0.12	EEVFKIV33IP	(2)	EEEFK1V331P	(2)	500
•	680	12.5	13.5	H13		0.06	0.12			EEVFK1V471Q	(2)	200
		12.5	13.5	H13	1100	0.06	0.12			EEVFK1V681Q		200
	1000	16	16.5	J16	1800	0.035	0.12			EEVFK1V102M	(2)	125
	1500	16	16.5	J16	1800	0.035		EEVEKALIADZD	(4)	EEVFK1V152M	(2)	125
	4.7	4	5.8	В	60	2.9	0.10	EEVFK1H4R7R	(1)	EEEFK1H4R7R	(4)	2000
	10	5	5.8	С	85	1.52		EEVFK1H100UR	(1)	EEEFK1H100UR	(4)	1000
	22	6.3	5.8	D	165	0.88	0.10	EEVFK1H100P	(1)	EEEFK1H100P	(4)	1000
		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
50	47	6.3	7.7	D8	195	0.68	0.10	EEVFK1H470XP	(1)		(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) (2)	200
	390	12.5 16	13.5 16.5	H13	900	0.12	0.10		+	EEVFK1H391Q EEVFK1H471M	(2)	200
	470	16	16.5	J16 J16	1610	0.073	0.10 0.10			EEVFK1H471M EEVFK1H681M	(2)	125 125
	1000	16	16.5	J16	1610 1610	0.073 0.073	0.10		+	EEVFK1H001M EEVFK1H102M	(2)	125
	1000	10	10.5	סוט	1010	0.073	0.10				1/-/	120

The taping dimension are explained on p.187 of our Catalog. Please use it as a reference guide.

Reflow Profile(Fig-1 to Fig-5) listed in a last page.

Endurance: 2000 to 5000h at 105°C

## ■ Standard Products

_		С	ase siz	ze	Specification			Part No.	Part No.	Min. Packaging		
W.V.	Cap. (±20%)	Dia.	Length	Size	Ripple current	Impe- dance	tan δ (120Hz)	(RoHS: not compliant)		(RoHS: compliant)		Q'ty
	, ,	( <b>)</b>		Code	(100kHz) (+105°C)	(100kHz) (+20°C)	(+20°C)	,	Reflow		Reflow	Taping
(V)	(μF)	(mm)	(mm)		(mA)	$(\Omega)$						(pcs)
	4.7	5	5.8	С	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
63	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
	3.3	5	5.8	С	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	Е	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
80	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
	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
100	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

The taping dimension are explained on p.187 of our Catalog. Please use it as a reference guide. Reflow Profile(Fig-1 to Fig-5) listed in a last page.

Endurance: 2000 to 5000h at 105°C

Part Number	Prefix	Suffix	Size	RoHS	Terminal Finish Materials	Reflow Condition			
ECEV•••R		R	3φ to 5φ	No	Sn-Pb	Peak Temp.: 240deg.C(within 5s),within 20s(time in 200deg.C or more)	Fig.1		
ECEV•••P	ECEV	Р	6φ to 10φ	No		6φ ••• Peak Temp.: 240deg.C(within 5s),within 20s(time in 200deg.C or more)	Fig.1		
LOCATOR					SII-FD	8 and 10¢ • • • Peak Temp.: 230deg.C(within 5s),within 20s(time in 200deg.C or more)	Fig.2		
EEV•••R		R	4φ and 5φ	No	Sn-Pb	Peak Temp.: 240deg.C(within 5s),within 20s(time in 200deg.C or more)	Fig.1		
EEV•••P		Р	C+ += 40+	No	Sn-Pb	6φ ••• Peak Temp.: 240deg.C(within 5s),within 20s(time in 200deg.C or more)	Fig.1		
	EEV	•	6φ to 10φ	INO	Sn-Pb	8 and 10¢ • • • Peak Temp.: 230deg.C(within 5s),within 20s(time in 200deg.C or more)	Fig.2		
EEV•••Q		Q 12.5¢		ОК	Sn	Peak Temp.: 230deg.C(within 5s),within 20s(time in	(Except for EB		
EEV•••M		М	16¢ and 18¢	ОК	Sn	200deg.C or more)	Fig.3 (EB series only)		
EEE •• R		R	3φ to 5φ	ОК	Sn-Bi	Peak Temp.: 250deg.C(within 5s), within 60s(time in 200deg.C or more)	Fig. 4		
EEE•••P	EEE	Р	6φ to 10φ	ОК	Sn-Bi	6φ ••• Peak Temp.: 250deg.C(within 5s),within 60s(time in 200deg.C or more)	Fig. 4		
EEE		'	οφιο τοφ	OK .	GIPDI	8 and 10¢ ••• Peak Temp.: 235deg.C(within 5s),within 60s(time in 200deg.C or more)	Fig. 5		

