Series KG

7mm height miniature size/+105°C



Features

- Low profile 7mm height for $\phi 4 \sim \phi 8$ mm
 Long life: 1000 hours at +105°C
- Various lead taping configurations for high density insertion

Specifications

Item	Performance Characteristics								
Operating Temperature Range	-55 to +105°C								
Rated Working Voltage Range	6.3 to 50V DC								
Nominal Capacitance Range	0.1 to 220μF								
Capacitance Tolerance	±20% (120Hz, +20°C)								
Leakage Current	$I \le 0.01 \text{CV} \text{ or } 3 \text{ [}\mu\text{A]}$ Whichever is greater measured after 2 minutes application of rated working voltage at +20 °C.								
tan δ	Working voltage [V]	6.3	10	16	25	35	50		
(120Hz, +20°0	tan δ max.	0.22	0.19	0.16	0.14	0.12	0.10		
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Impedance ratio max. at 120Hz								
	Working voltage [V]	6.3	10	16	25	35	50		
Characteristics at Low Temperature	-25°C/+20°C	3	2	2	2	2	2		
	-40°C/+20°C	6	5	3	3	3	3		
	-55°C/+20°C	8	6	4	4	4	4		
Impedance	Refer to standard products table (100kHz, +20°C)								
Endurance	Test conditions Duration : 1000 hours Ambient temperature : +105°C Applied voltage : Rated DC working voltage								
	Post test requirements at +20°C Leakage current : ≤ Initial specified value Capacitance change : ±20% of initial measured value tan δ : ≤ 200% of initial specified value								
Shelf Life	Test conditions Duration Ambient temperature Applied voltage	Post test requirements at +20°C : 1000 hours Same limits for "Endurance". : +105°C : (None)							

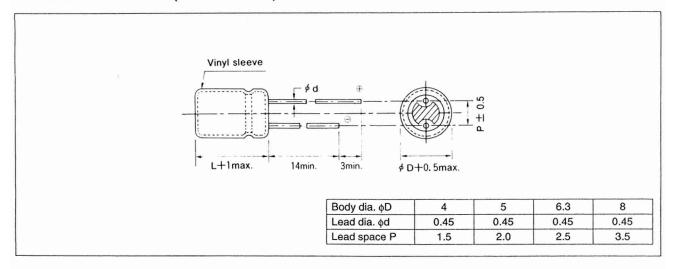
(See page:17~20)



Explanation of Part Numbers



Dimensions in mm (not to scale)



Case Size

W.V.[V.DC] Cap.[μF]	6.3 (OJ)	10 (1A)	16 (1C)	25 (1E)	35 (1V)	50 (1H)
0.1 (0R1)						4 ×7
0.15 (R15)						4 × 7
0.22 (R22)						4 × 7
0.33 (R33)						4 ×7
0.47 (R47)						4 ×7
0.68 (R68)						4 × 7
1 (010)						4 ×7
1.5 (1R5)						4 ×7
2.2 (2R2)						4 ×7
3.3 (3R3)						4 × 7
4.7 (4R7)					4 ×7	4 × 7
6.8 (6R8)			4 × 7	4 ×7	4 ×7	5 × 7
10 (100)			4 ×7	4 ×7	5 ×7	6.3×7
15 (150)			4 ×7	5 × 7	6.3×7	6.3×7
22 (220)	4 ×7	4 ×7	5 × 7	5 × 7	6.3×7	8 × 7
33 (330)	5 ×7	5 × 7	6.3×7	6.3×7	8 ×7	8 × 7
47 (470)	5 ×7	6.3×7	6.3×7	8 ×7	8 ×7	
68 (680)	6.3×7	6.3×7	8 × 7	8 ×7		
100 (101)	6.3×7	6.3×7	8 ×7			
220 (221)	8 ×7					

^() indicates W.V. and capacitance code.



Standard Products

W.V. Cap. [μF]			D.C.L. (+20*C/2 min) [μΑ] max.	tan δ (120Hz/+20°C) max.	Impedance (100kHz/+20°C)	Ripple current (100kHz/+105°C) [mA] rms	Dimensions [mm]	
	լայ				[Ω] max.	max.	φD	L
	22	ECEA0JKG220	3.0	0.22	10	47	4	
6.3	33	ECEA0JKG330	3.0	0.22	5	70	5	
	47	ECEA0JKG470	3.0	0.22	5	70	5	
	68	ECEA0JKG680	4.2	0.22	2	121	6.3	
	100	ECEA0JKG101	6.3	0.22	2	121	6.3	
	220	ECEA0JKG221	13.8	0.22	1.2	190	8	
10	22	ECEA1AKG220	3.0	0.19	10	47	4	
	33	ECEA1AKG330	3.3	0.19	5	70	5	
	47	ECEA1AKG470	4.7	0.19	2	121	6.3	
	68	ECEA1AKG680	6.8	0.19	2	121	6.3	
	100	ECEA1AKG101	10.0	0.19	2	121	6.3	
	6.8	ECEA1CKG6R8	3.0	0.16	10	47	4	
-	10	ECEA1CKG100	3.0	0.16	10	47	4	
	15	ECEA1CKG150	3.0	0.16	10	47	4	
16	22	ECEA1CKG220	3.5	0.16	5	70	5	
10	33	ECEA1CKG330	5.2	0.16	2	121	6.3	
	47	ECEA1CKG470	7.5	0.16	2	121	6.3	
	68	ECEA1CKG680	10.8	0.16	1.2	190	8	
	100	ECEA1CKG101	16.0	0.16	1.2	190	8	
	6.8	ECEA1EKG6R8	3.0	0.14	10	47	4	
25	10	ECEA1EKG100	3.0	0.14	10	47	4	
	15	ECEA1EKG150	3.7	0.14	5	70	5	
	22	ECEA1EKG220	5.5	0.14	5	70	5	
	33	ECEA1EKG330	8.2	0.14	2	121	6.3	
	47	ECEA1EKG470	11.7	0.14	1.2	190	8	-
	68	ECEA1EKG680	17.0	0.14	1.2	190	8	
	4.7	ECEA1VKG4R7	3.0	0.12	10	47	4	
	6.8	ECEA1VKG6R8	3.0	0.12	10	47	4	
35	10	ECEA1VKG100	3.5	0.12	5	70	5	
	15	ECEA1VKG150	5.2	0.12	2	121	6.3	
	22	ECEA1VKG220	7.7	0.12	2	121	6.3	
	33	ECEA1VKG330	11.5	0.12	1.2	190	8	
	47	ECEA1VKG470	16.4	0.12	1.2	190	8	
	0.1	ECEA1HKG0R1	3.0	0.10	22	1.7	4	
50	0.15	ECEA1HKGR15	3.0	0.10	16	2.5	4	
	0.22	ECEA1HKGR22	3.0	0.10	12	3.5	4	
	0.33	ECEA1HKGR33	3.0	0.10	10	5.4	4	
	0.47	ECEA1HKGR47	3.0	0.10	10	7.6	4	
	0.68	ECEA1HKGR68	3.0	0.10	10	10	4	
	1.0	ECEA1HKG010	3.0	0.10	10	16	4	
	1.5	ECEA1HKG1R5	3.0	0.10	10	24	4	
	2.2	ECEA1HKG2R2	3.0	0.10	10	36	4	
	3.3	ECEA1HKG3R3	3.0	0.10	10	47	4	
	4.7	ECEA1HKG4R7	3.0	0.10	10	47	4	
		ECEA1HKG6R8						
	6.8	Carte Control of the Carte Con	3.4	0.10	5	70	5	
	10	ECEA1HKG100	5.0	0.10	2	121	6.3	
	15	ECEA1HKG150	7.5	0.10	2	121	6.3	
	22	ECEA1HKG220	11.0	0.10	1.2	190	8	

Mouser Electronics

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Panasonic:

ECE-A1CKG100 ECE-A1CKG101 ECE-A1CKG150 ECE-A1CKG220 ECE-A1EKG100 ECE-A1EKG150 ECE-A1EKG330 ECE-A1EKG680 ECE-A1AKG220 ECE-A1HKG2R2 ECE-A1HKG4R7 ECE-A1VKG100 ECE-A1VKG4R7 ECE-A0JKG220 ECE-A1CKG470 ECE-A1CKG6R8 ECE-A1VKG6R8B ECE-A1HKG330 ECE-A1HKG010 ECE-A0JKG101 ECE-A0JKG101B ECE-A0JKG101I ECE-A0JKG220B ECE-A0JKG220I ECE-A0JKG221 ECE-A0JKG221I ECE-A0JKG221Q ECE-A0JKG330 ECE-A0JKG330B ECE-A0JKG330I ECE-A0JKG470 ECE-A0JKG470B ECE-A0JKG470I ECE-A0JKG680 ECE-A0JKG680B ECE-A0JKG680I ECE-A1AKG101 ECE-A1AKG101B ECE-A1AKG101I ECE-A1AKG220B ECE-A1AKG220I ECE-A1AKG330 ECE-A1AKG330B ECE-A1AKG330I ECE-A1AKG470B ECE-A1AKG470I ECE-A1AKG680 ECE-A1AKG680B ECE-A1AKG680I ECE-A1CKG100B ECE-A1CKG100I ECE-A1CKG101I ECE-A1CKG101Q ECE-A1CKG150B ECE-A1CKG150I ECE-A1CKG220B ECE-A1CKG220I ECE-A1CKG330 ECE-A1CKG330B ECE-A1CKG330I ECE-A1CKG470B ECE-A1CKG470I ECE-A1CKG680 ECE-A1CKG680I ECE-A1CKG680Q ECE-A1CKG6R8B ECE-A1CKG6R8I ECE-A1EKG100B ECE-A1EKG100I ECE-A1EKG150B ECE-A1EKG150I ECE-A1EKG220 ECE-A1EKG220B ECE-A1EKG220I ECE-A1EKG330B ECE-A1EKG330I ECE-A1EKG470 ECE-A1EKG470I ECE-A1EKG470Q ECE-A1EKG680I ECE-A1EKG680Q ECE-A1EKG6R8 ECE-A1EKG6R8B ECE-A1EKG6R8I ECE-A1HKG010B ECE-A1HKG010I ECE-A1HKG0R1 ECE-A1HKG0R1B ECE-A1HKG0R1I ECE-A1HKG100 ECE-A1HKG100B ECE-A1HKG100I ECE-A1HKG150 ECE-A1HKG150B ECE-A1HKG150I ECE-A1HKG1R5 ECE-A1HKG1R5B ECE-A1HKG1R5I ECE-A1HKG220 ECE-A1HKG220I