

Kingtronics®**GKT-EA****SMD Multilayer Solid Capacitor****FEATURES**

- Endurance: 2,000 hours at 105°C
- Low ESR
- Recommended Applications: System Board, Display Card, Small Charger and intelligent TV
- RoHS Compliant and lead-free

**SPECIFICATIONS**

Category Temperature Range	-55 ~ +105°C												
Rated Working Voltage Range	2 ~ 25 Vdc												
Nominal Capacitance Range	2.2 ~ 470μF												
Capacitance Tolerance	±20% (M) ; -35%~+10% (L) ; -10%~+20% (V) ; 0~+20% (A) at 120°C; 120Hz												
DC Leakage Current	1 ≤0.1CV Where, I: Leakage current (μA),C: Nominal capacitance (μF },V: Rated voltage M (at 20°C after 2 minutes)												
Dissipation Factor (tan δ)	Rated Voltage (Vdc)	2	2.5	4	6.3	7.5	10	12.5	16	20	25	At 20°C,120Hz	
	Dissipation Factor (max)	0.06						0.08					
ESR (100kHz, 20°C)	Value In characteristics table; Divided into two levels: A/B												
Temperature Characteristics (Impedance Ratio at 100kHz)	Z(+105° C)/Z(+20° C) ≤ 1.25 Z(-55° C) / Z(+20° C) ≤ 1.25												
Endurance	After applying rated voltage for 2,000 hours at 105°C, the capacitors shall meet the following requirements.												
	Appearance				No significant damage								
	Capacitance Change				≤ ±20% of the Initial value								
	Dissipation Factor				≤ 150% of the initial specified value								
	ESR				≤ 150% of the initial specified value								
	Leakage Current				≤ The initial specified value								
Humidity Test	After subjecting to 90%~95% RH for 500 hours at 60°C (no voltage), the capacitors shall meet the requirements as Endurance.												
	Rated Voltage {Vdc)				2~2.5		4		6.3~7.5		8~16		25
	Capacitance Change				+70, -20%		+60, -20%		+50, -20%		+40, -20%		
	D.F. (tan δ)				≤ 200% of the initial specified value								
	Leakage Current				The initial specified value								
Surge Test	After subjecting to 1,000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the following requirements.												
	Appearance				No significant damage								
	Capacitance Change				≤ ±20% of the Initial value								
	Dissipation Factor				≤ 150% of the initial specified value								
	ESR				≤ 150% of the initial specified value								
	Leakage Current				≤ The initial specified value								

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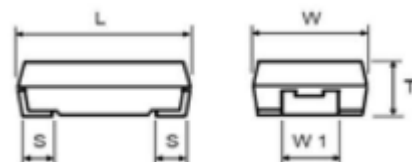
Kingtronics®

GKT-EA

SMD Multilayer Solid Capacitor

Drawing (unit: mm):

Case Size	L ± 0.3	W1 ± 0.2	T ± 0.1	W1 ± 0.2	S ± 0.2
7.3x4.3x1.9	7.3	4.3	1.9	2.4	1.3



Characteristics Table:

WV(Vdc)	Cap(μF)	Size (LxWxT mm)	ESR(A)mΩ20°C ,100kHz (max.)	ESR(B)mΩ20°C ,100kHz (max.)	Rated ripple current(A) (mArms)100Khz	Rated ripple current(B) (mArms)100Khz	Leakage current (μA max.)20°C
2	68	7.3*4.3*1.9	32	40	1950	1800	14
	100	7.3*4.3*1.9	12	16	2200	2000	20
	150	7.3*4.3*1.9	6	9	3200	3000	30
	220	7.3*4.3*1.9	6	9	3400	3200	44
	270	7.3*4.3*1.9	6	9	3800	3500	54
	300	7.3*4.3*1.9	6	9	3850	3600	60
	330	7.3*4.3*1.9	4.5	8	4100	3800	66
	390	7.3*4.3*1.9	4.5	8	4250	3900	78
	470	7.3*4.3*1.9	4.5	8	4400	4000	94
2.5	47	7.3*4.3*1.9	32	40	1950	1800	12
	100	7.3*4.3*1.9	12	16	2200	2000	25
	150	7.3*4.3*1.9	6	9	3200	3000	38
	180	7.3*4.3*1.9	6	9	3300	3100	45
	220	7.3*4.3*1.9	6	9	3400	3200	55
	270	7.3*4.3*1.9	6	9	3800	3500	68
	330	7.3*4.3*1.9	4.5	8	4100	3800	83
	470	7.3*4.3*1.9	4.5	8	4400	4000	118
4	68	7.3*4.3*1.9	15	20	2050	1900	27
	82	7.3*4.3*1.9	12	16	2250	2100	33
	150	7.3*4.3*1.9	12	16	2500	2300	60
	220	7.3*4.3*1.9	12	16	2950	2700	88
6.3	10	7.3*4.3*1.9	45	55	1100	1000	6
	22	7.3*4.3*1.9	35	45	1250	1150	14
	33	7.3*4.3*1.9	35	45	2000	1800	21
	47	7.3*4.3*1.9	25	40	2200	2000	30

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WV(Vdc)	Cap(μF)	Size (LxWxT mm)	ESR(A)mΩ20°C ,100kHz (max.)	ESR(B)mΩ20°C ,100kHz (max.)	Rated ripple current(A) (mArms)100Khz	Rated ripple current(B) (mArms)100Khz	Leakage current (μA max.)20°C
6.3	68	7.3*4.3*1.9	12	15	2400	2200	43
	100	7.3*4.3*1.9	12	15	2750	2500	63
	120	7.3*4.3*1.9	10	15	3200	2900	76
	150	7.3*4.3*1.9	9	15	3300	3000	95
	180	7.3*4.3*1.9	9	14	3600	3200	113
	220	7.3*4.3*1.9	9	14	3750	3300	139
10	10	7.3*4.3*1.9	35	45	1100	1000	10
	22	7.3*4.3*1.9	35	45	1700	1600	22
	27	7.3*4.3*1.9	18	30	1800	1700	27
	33	7.3*4.3*1.9	18	30	2000	1800	33
	39	7.3*4.3*1.9	18	30	2050	1850	39
	47	7.3*4.3*1.9	18	30	2200	1950	47
	68	7.3*4.3*1.9	18	30	2300	2050	68
	100	7.3*4.3*1.9	18	30	2750	2500	100
16	4.7	7.3*4.3*1.9	64	80	1100	1000	8
	6.8	7.3*4.3*1.9	56	70	1100	1000	11
	15	7.3*4.3*1.9	45	60	1200	1100	16
	22	7.3*4.3*1.9	25	40	1300	1200	24
	33	7.3*4.3*1.9	18	30	1500	1400	35
	47	7.3*4.3*1.9	18	30	1750	1600	53
	68	7.3*4.3*1.9	18	30	1850	1700	75
	100	7.3*4.3*1.9	18	30	2000	1850	109
	220	7.3*4.3*1.9	18	30	2350	2100	160
25	4.7	7.3*4.3*1.9	64	80	1100	1000	12
	6.8	7.3*4.3*1.9	56	70	1200	1100	17
	10	7.3*4.3*1.9	45	60	1400	1200	25
	15	7.3*4.3*1.9	40	55	1550	1400	38
	22	7.3*4.3*1.9	28	40	1600	1450	55
	33	7.3*4.3*1.9	28	40	1650	1500	83
	47	7.3*4.3*1.9	28	40	1800	1600	118
	68	7.3*4.3*1.9	25	36	1900	1700	170

Note: Specifications are subject to change without notice.

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