

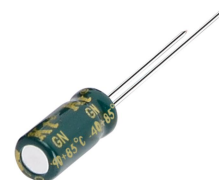
# Kingtronics®

# GKT-GN

## Aluminum Electrolytic Capacitor— Radial

### FEATURES

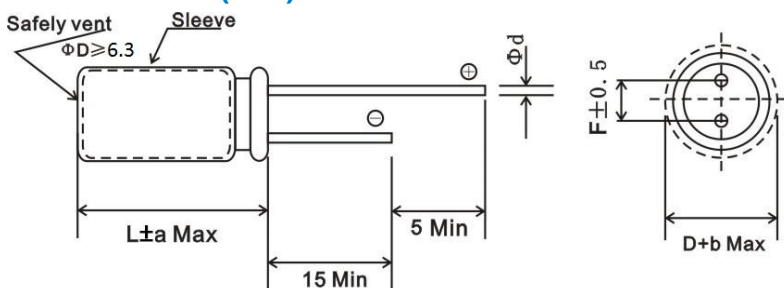
- ◆ Non-Polarized
- ◆ Used in polarity reverse and change circuits.



### SPECIFICATIONS

OPERATING TEMPERATURE RANGE (°C)	-40°C ~ +85°C										
Capacitance Range (μF)	0.47μF ~ 6800μF										
Rated Voltage Range (V)	6.3V ~ 160V										
CAPACITANCE TOLERANCE (+20°C, 120Hz)	±20%										
LEAKAGE CURRENT	≤0.03CV + 3(μA) (1 minute)										
DISSIPATION FACTOR (+20°C, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160	
	Tan δ	0.28	0.24	0.22	0.20	0.15	0.14	0.10	0.09	0.15	
For capacitance value > 1000μF, add 0.02 for every increase of 1000μF											
Temperature Characteristics (120Hz)	Rated Voltage (V)		6.3	10	16	25	35	50	63	100	160
	Impedance	Z-25°C/Z+20°C	4	3	2						4
	Radio	Z-40°C/Z+20°C	10	8	6	5	4	3		--	
LOAD LIFE	After applying rated voltage for 500x2 hours at +85°C and then resumed 16 hours										
	Leakage Current	≤Initial specified value									
	Capacitance Change	±20% initial measured value									
	Dissipation Factory	≤ 2 Initial specified value									
SHELF LIFE	After storage for 1000 hours at +85°C and then resumed 16 hours										
	Leakage Current	≤ 2 Initial specified value									
	Capacitance Change	±20% initial measured value									
	Dissipation Factory	≤ 2 Initial specified value									

### DIMENSIONS (mm)



ΦD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0		7.5	
Φd±0.05	0.5		0.6			0.8	
b Max	0.5					1.0	

a Max	D<18	D=18	
		L<35.5	L≥35.5
	+1.5 -1.0	+1.5 -1.0	+2.0 -1.0

### MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient		Freq(Hz)				
Rated Voltage(V)	Factor	50,60	120	1K	10K	100K
	6.3 ~ 16	0.80	1	1.1	1.2	1.2
25 ~ 35	0.80	1	1.5	1.7	1.7	
50 ~ 160	0.80	1	1.6	1.9	1.9	

Temperature coefficient		
Temperature (°C)	+70	+85
Factor	1.35	1

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### STANDARD RATINGS

Cap/μF \ WV/V	6.3		10		16		25		35	
	0.47	--	--	--	--	--	--	--	--	--
1.0	--	--	--	--	--	--	--	--	--	--
2.2	--	--	--	--	--	--	--	--	--	--
3.3	--	--	--	--	--	--	--	--	--	--
4.7	--	--	--	--	--	--	--	--	5x11	34
10	--	--	--	--	5x11	47	5x11	42	5x11	43
22	--	--	5x11	57	5x11	57	6.3x11	65	6.3x11	73
33	5x11	64	5x11	64	5x11	40	6.3x11	80	8x12	100
47	5x11	76	5x11	76	6.3x11	95	6.3x11	95	8x12	120
100	6.3x11	125	6.3x11	125	8x12	160	8x12	160	10x16	230
220	8x12	215	8x12	215	10x13	275	10x16	305	13x20	410
330	8x12	265	10x16	345	10x16	375	13x20	450	13x20	505
470	10x13	370	10x16	410	10x20	485	13x20	540	13x25	655
1000	10x20	650	13x20	720	16x25	855	16x25	950	16x30	1140
2200	13x25	1160	16x25	1280	16x30	1510	19x35	1620	--	--
3300	16x25	1570	16x30	1690	19x35	1960	--	--	--	--
4700	16x30	2020	19x35	2160	--	--	--	--	--	--
6800	19x35	2600	--	--	--	--	--	--	--	--

Cap/μF \ WV/V	50		63		100		160	
	0.47	5x11	11	--	--	5x11	14	--
1.0	5x11	17	--	--	5x11	21	--	--
2.2	5x11	25	--	--	6.3x11	34	--	--
3.3	5x11	27	5x11	28	6.3x11	39	10x16	49
4.7	5x11	34	6.3x11	34	6.3x11	47	10x16	59
10	6.3x11	52	6.3x11	57	8x12	71	13x20	109
22	8x12	89	8x12	95	10x16	135	13x25	177
33	8x12	105	10x13	135	13x20	220	16x25	240
47	10x13	150	10x12.5	155	13x20	240	16x35	329
100	10x20	265	13x20	320	16x25	425	19x35	425
220	13x25	480	16x25	575	19x35	720	--	--
330	16x25	650	16x30	655	--	--	--	--
470	16x30	835	19x35	965	--	--	--	--

Rated ripple current (mA, +85°C, 120Hz)

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**Kingtronics**®**GKT-GN**

Aluminum Electrolytic Capacitor— Radial

**HOW TO ORDER**

<b>GKT</b>	<b>GN</b>	<b>0J</b>	<b>0R1</b>	<b>M</b>	<b>00500110</b>	<b>020</b>	<b>000</b>	<b>B</b>	<b>R</b>
Series	Sub Series	Rated Voltage	Capacitance	Capacitance Tolerance	Dimension	Pitch/Pins	Lead Length	Packing	Pb
		1.	2.	3.	4.	5.	6.	7.	8.

**NOTE:****1. Rated Voltage**

Code	0J	1A	1C	1D	1E	1V	1G	1H	1J	1K
Voltage	6.3V	10V	16V	20V	25V	35V	40V	50V	63V	80V

Code	2A	2B	2C	2K	2D	2E	2F	2U	2V	2G	2X	2W	2H	2Y
Voltage	100V	120V	160V	180V	200V	250V	315V	330V	350V	400V	420V	450V	500V	550V

**2. Capacitance**

Code	0R1	R22	R33	R47	010	2R2	3R3	4R7	100	220	330	470	101
Capacitance (μF)	0.1	0.22	0.33	0.47	1	2.2	3.3	4.7	10	22	33	47	100

Code	221	271	331	391	471	561	681	102	222	332	472	103	223
Capacitance (μF)	220	270	330	390	470	560	680	1000	2200	3300	4700	10000	22000

**3. Capacitance Tolerance**

Code	K	L	M	P	Q	R	T	U	V	H	F
Tolerance	±10%	±15%	±20%	+100-0%	+30-10%	+20-0%	+50-10%	+75-10%	+20-10%	+20-5%	+30-0

**4. Dimension**

Code	00500110	00630120	01300200	01600300	03500450
Dimension (mm)	5x11	6.3x12	13x20	16x30	35x45

**5. Pitch/Pins**

Code	020	025	035	050	075	100	127	4pins
Pitch (mm)/ Pins	2.0	2.5	3.5	5.0	7.5	10.0	12.7	4PS

**6. Lead Length**

Code	000	040	045	050
Lead Length	Standard	4.0	4.5	5.0

**7. Packing**

Code	A	B
Packing	Ammo	Bulk

**8. Pb**

Code	L	R
Pb	Leaded	RoHS

Note: Specifications are subject to change without notice.

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