COMPONENT SPECIFICATION

SERIES NAME Plain Polypropylene Round Axial Film

Capacitors

(Non-Inductive)

DEKI SERIES NO. 597



GIVEN BY: DEKI ELECTRONICS LTD

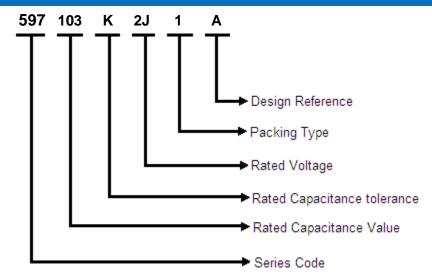
DEKI ELECTRONICS LTD

B-19&20, SECTOR-58, NOIDA 201301 Tel: +91 120 2585457/58 • Fax: +91 120 2585289 • Email: rd@dekielectronics.com

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ITEM CODE DESCRIPTION



Three-digit (104) indicate rated capacitance in Pico Farad (First two digits indicate value & third digit indicates number of zeroes to be suffixed to first two digits). For example:

 $103 = 10 \times 10^{3} = 10000 \text{ pF}$ = 10 nF = $0.01 \text{ }\mu\text{F}$ $104 = 10 \times 10^{4} = 100000 \text{ pF}$ = 100 nF = $0.1 \text{ }\mu\text{F}$ $105 = 10 \times 10^{5} = 1000000 \text{ pF}$ = 1000 nF = $1 \text{ }\mu\text{F}$ $106 = 10 \times 10^{6} = 10000000 \text{ pF}$ = 10000 nF = $10 \text{ }\mu\text{F}$

Capacitance Tolerance

 $F = \pm 1\%$, $G = \pm 2\%$, $H = \pm 2.5\%$, $I = \pm 3.5\%$, $J = \pm 5\%$, $K = \pm 10\%$, $L = \pm 15\%$, $M = \pm 20\%$, $N = \pm 40\%$

Rated Voltage

One digit and one letter (2J) or two digits indicate rated voltage

Rated Voltage Codification

For DC Rated Voltage														
А		В		С		D		E		F		G		
1A	10	1B	12.5	1C	16	1D	20	1E	25	1F	30	1G	40	
2A	100	2B	125	2C	160	2D	200	2E	250	2F	300	2G	400	
3A	1000	3B	1250	3C	1600	3D	2000	3E	2500	3F	3000	3G	4000	
Н				J		K		Ĺ		М		N		
1H	50	11	45	1J	63	1K	70	1L	80	1M	85	1N	90	
2H	500	21	450	2J	630	2K	700	2L	800	2M	850	2N	900	
3H	5000	31	4500	3J	6300	3K	7000	3L	8000	3M	8500	3N	9000	
(Ō		Р		Q		R		S		U		V	
10	110	1P	120	1Q	57.5	1R	15	1S	17	1U	130	1V	60	
20	1100	2P	1200	2Q	575	2R	150	2S	170	2U	1300	2V	600	
30	11000	3P	12000	3Q	5750	3R	1500	3S	1700	3U	13000	3V	6000	
For AC Rated Voltage														
01	02	03	04	05	06	07	08	09	10	11	12	13	14	
190	250	275	305	310	440	500	600	700	63	230	330	400	450	
VAC	VAC	VAC	VAC	VAC	VAC	VAC	VAC	VAC	VAC	VAC	VAC	VAC	VAC	

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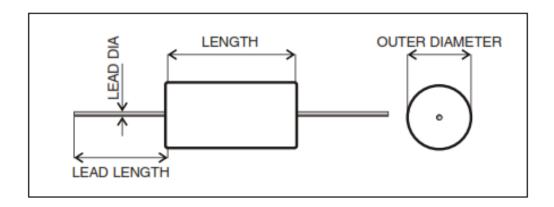
Packing Type

- 1: Bulk packing (original pitch)
- 2: Bulk packing (after forming & cutting)
- 3: Ammo packing (after forming & taping)
- 4: Bulk packing (after forming in original pitch without cut)
- 5: Bulk packing (after formed & without cut)
- 6: Ammo packing (Straight lead)
- 7: Bulk packing (Straight lead cut)
- 8: Reel packing (Straight lead)

Reference Data

Climatic testing class according to IEC 60068-1	40/100/21				
Tolerance	±2% to ± 20%				
Rated capacitance	0.00022µf to 0.073µf				
Rated DC voltage	63Vdc to 1000 VDC				
Maximum application temperature	100°C				
Rated temperature	85°C				
Reference standards	IEC 60384-13				
Dielectric	Polypropylene				
Electrodes	Al. Foil				
Construction	Mono				
Encapsulation	Wrapped in yellow polyester tape				
Leads	Tinned wire				
	Type of capacitor, rated capacitance, rated tolerance,				
Marking Example	rated voltage and traceability code will be available on				
	each and every capacitor. DEKI / PP-NI D 223 K 2J				

Dimension Description



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Rated	Rated		Dimensi	ons (mm)		Item Code
Voltage	Capacitanc e	Diameter	Length	Lead dia	Lead length	item Code
	(μ F)	(±0.5)	(±0.5)	(±0.05)	Max	
63Vdc	0.033	11.5	17.0	0.6	30.0	597 333 J 1J 1 A
100Vdc	0.001	8.0	16.5	0.6	30.0	597 102 J 2A 1 A
	0.001	8.0	16.5	0.6	30.0	597 102 M 2A 1 A
	0.0022	8.0	16.5	0.6	30.0	597 222 J 2A 1 A
	0.018	11.0	20.0	0.6	30.0	597 183 J 2A 1 A
250Vdc	0.0022	8.0	16.5	0.6	30.0	597 222 J 2E 1 A
	0.068	12.0	27.0	8.0	30.0	597 683 G 2E 1 A
	0.073	13.0	27.0	8.0	30.0	597 733 G 2E 1 A
400Vdc	0.00022	8.5	16.5	0.6	30.0	597 221 J 2G 1 A
	0.00047	8.0	16.5	0.6	30.0	597 471 J 2G 1 A
	0.00056	8.0	16.5	0.6	30.0	597 561 J 2G 1 A
	0.00068	8.0	16.5	0.6	30.0	597 681 J 2G 1 A
	0.001	8.0	16.5	0.6	30.0	597 102 J 2G 1 A
	0.0022	10.0	16.5	0.6	30.0	597 222 J 2G 1 A
	0.024	11.5	27.5	8.0	30.0	597 243 J 2G 1 A
	0.035	12.0	27.5	0.8	30.0	597 353 J 2G 1 A
1000Vdc	0.001	8.0	15.5	0.6	30.0	597 102 J 3A 1 A

^{*}All dimension in mm

Specific Data

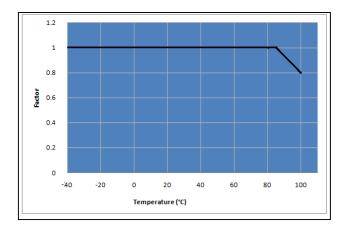
Description	Value		
Maximum tangent of loss angle (Tanδ)	1 kHz	10 kHz	
	0.0008	0.0015	
Voltage proof test between leads	2 times of the rat	ed DC voltage for 2 second	
Insulation Resistance (R _{IS})	C _R ≤0.1µF	C _R >0.1µF	
(or) time constant $T = C_R \times R_{IS}$	≥100000 MΩ	≥10000 s	
at 25° C, relative humidity ≤70%			

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Temperature Derating Graph

For temperature between +85°C and 100°C a decreasing factor of 1.25% per °C on the rated voltage V_R has to be applied



Storage Conditions

Avoid storing the capacitors in places where the environmental conditions differ from the following:

- Storage time: ≤ 24 months from the date marked on the label glued to the package.
- Temperature: -40 to 80°C
- Humidity:

- Average per year: ≤70%

- For 30 full days randomly distributed throughout the year: ≤85%

- Dew: absent

After a longer period of storage or use, the tolerance can increase; but, according to standard specification, it may never exceed twice the value measured at the time of delivery.

Disclaimer

All our capacitors are designed, manufactured and tested to specifications. We strictly adhere to standards in procurement of materials, in the laid down manufacturing processes and consistently apply stringent process controls and testing parameters. This ensures that our capacitors always perform to the offered specifications.

Appropriateness of use in a specific circuit and fitness to a particular application however needs to be verified and its reliability through expected lifetime is required to be validated by the customer. Deki's responsibility is limited to ensuring that the capacitor performs as claimed in the specification/ data sheets provided by Deki. Deki specifically disclaims any implied warranties of fitness for any particular purpose. Liability, in any case is limited to the price paid for the capacitors.