

COMPONENT SPECIFICATION

SERIES NAME MOTOR RUN CAPACITOR - WIRE TYPE
DEKI SERIES NO. 205



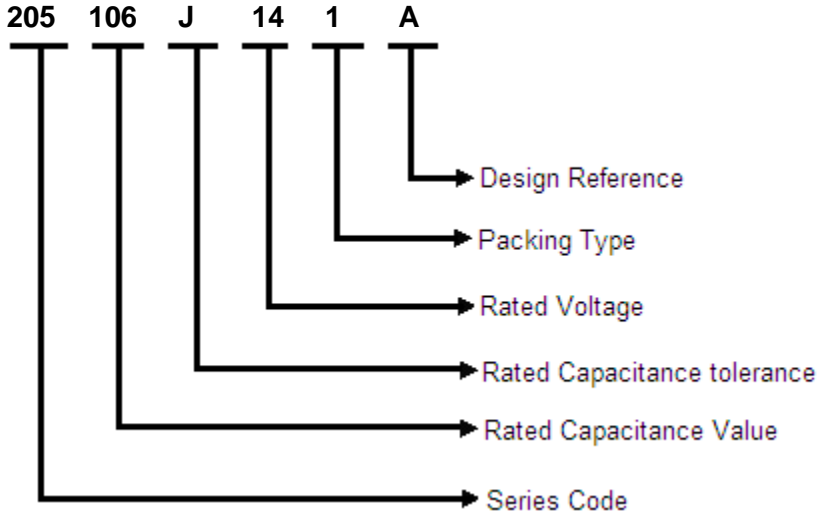
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Part Number Description



Rated Capacitance

Three-digit (105) 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 = 10×10^3 = 10000 pF	= 10 nF	=0.01 μ F
104 = 10×10^4 = 100000 pF	= 100 nF	=0.1 μ F
105 = 10×10^5 = 1000000 pF	= 1000 nF	=1 μ F
106 = 10×10^6 = 10000000 pF	= 10000 nF	=10 μ F

Capacitance Tolerance

In 3rd group of the part number-

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

In 4th group of the part number, two numeric digits indicate AC voltage rating.

Rated Voltage Codification

For AC Rated Voltage															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
190 VAC	250 VAC	275 VAC	305 VAC	310 VAC	440 VAC	500 VAC	600 VAC	700 VAC	63 VAC	230 VAC	330 VAC	400 VAC	450 VAC	350 VAC	300 VAC

Packing Type

- 1- Bulk Packing

General Data

Features

- Good Self-healing properties
- Minimal internal power losses
- High insulation resistance
- IS 2993 compliance
- Wide climatic category
- RoHS Compliance

Construction

- Dielectric: polypropylene film
- Plastic case
- Polyurethane Resin
- Dry type

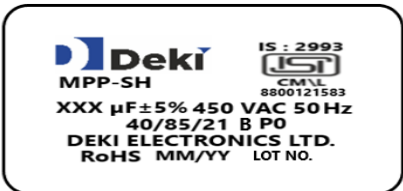
Terminals

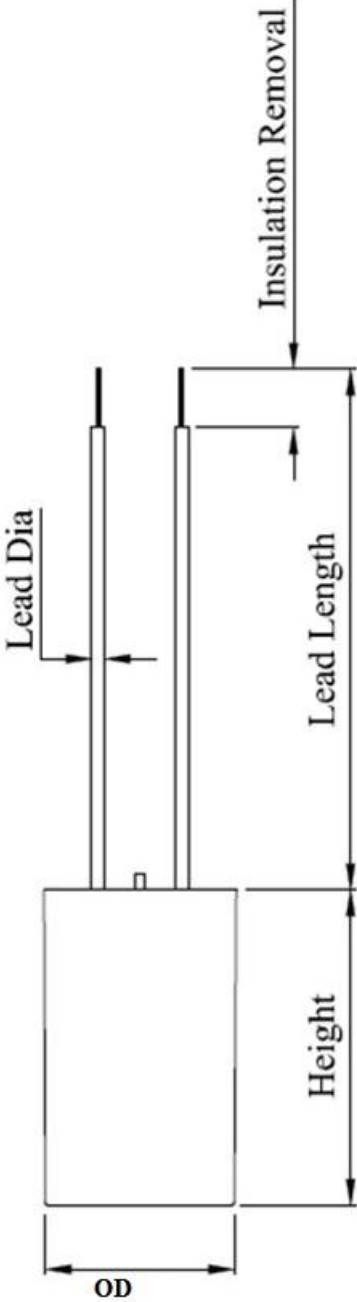
- Tin Plated PVC Wire

Applications

- To be used as motor run capacitor.

Reference Data

Climatic testing class according to IEC 60068-1	40/85/21
Rated Capacitance range	1 to 100 MFD
Capacitance Tol.	±5%(J)
Rated temperature	-40°C ~ +85°C
Rated Voltage (UN)	450 VAC
Reference standards	IS : 2993-1998
Dielectric	Metallized Polypropylene
Safety Approval Mark	P0
Class of Operation	Class-B
Expected life(IS:2993)	10000Hrs (failure rate not exceeding 3 %)
Frequency	50 Hz
Altitude	≤2000m
Encapsulation	Encased in Plastic Round Can filled with resin
Leads	Tin plated PVC insulated wire
Marking	



Dimension Description

Part Number	Capacitance ($\mu\text{F}\pm 5\%$)	Voltage (VAC)	Diameter (OD ± 1.0)	Height (H ± 2.0)	Lead Length L($\pm 5\text{mm}$)	Insulation removal (S ± 2.0)	Lead Spec.	Lead Dia (± 0.05)
205 505 J 14 1 *	5.0	450	30	53	100	10	16/0.2	2.15
205 605 J 14 1 *	6.0	450	35	54	100	10	16/0.2	2.15
205 805 J 14 1 *	8.0	450	35	54	100	10	16/0.2	2.15
205 106 J 14 1 *	10.0	450	35	72	100	10	16/0.2	2.15
205 156 J 14 1 *	15.0	450	35	72	100	10	16/0.2	2.15
205 206 J 14 1 *	20.0	450	40	72	100	10	16/0.2	2.15
205 256 J 14 1 *	25.0	450	40	95	205	10	16/0.2	2.15
205 306 J 14 1 *	30.0	450	40	95	205	10	24/0.2	2.50
205 356 J 14 1 *	36.0	450	40	95	205	10	24/0.2	2.50
205 406 J 14 1 *	40.0	450	45	95	205	10	24/0.2	2.50
205 456 J 14 1 *	45.0	450	50	95	205	10	24/0.2	2.50
205 506 J 14 1 *	50.0	450	50	95	205	10	24/0.2	2.50
205 606 J 14 1 *	60.0	450	50	125	205	10	32/0.2	2.65
205 726 J 14 1 *	72.0	450	50	125	205	10	32/0.2	2.65
205 806 J 14 1 *	80.0	450	50	125	205	10	32/0.2	2.65
205 906 J 14 1 *	90.0	450	63	128	205	10	32/0.2	2.65
205 107 J 14 1 *	100.0	450	63	128	205	10	32/0.2	2.65

*Internal design code

All dimensions in mm

Specific Data

Description	Value
Maximum tangent of loss angle (Tan δ)	≤ 0.002 at 100Hz
Voltage proof test between leads	2 times of Rated Voltage at 2 Sec. (Routine test)
	2 times of Rated Voltage at 60 Sec. (Type test)
Voltage proof test between lead and case	2000Vac for 60 sec.(Type test)
Insulations resistance or time constant ($C_R \times R_{IS}$) between leads at 500 Vdc	$\geq 3000\text{s}$
Maximum Rate of Voltage rise (dv/dt max)	10V/ μs

Endurance Test

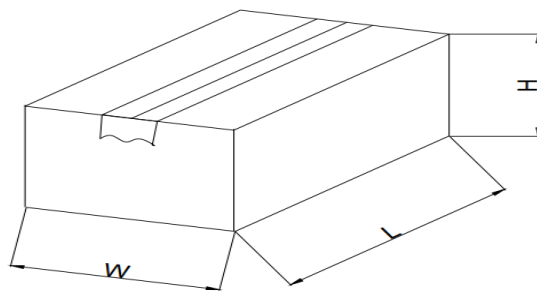
Test condition:

- Voltage: 1.25 x UN or 1.35 x UN
- Temperature: 85°C
- Duration: 2000Hrs or 1000Hrs

Test requirements:

- No visible damage
- Change in capacitance: $\leq 3\%$

Packing Type



Capacitor Size	L	W	H	Quantity
30x53	335	167	80	50
35x54	385	190	80	50
35x72	385	190	100	50
40x72	250	250	115	25
40x95	250	250	115	25
45x95	250	250	115	25
50x95	280	280	115	25
50x125	280	280	150	25
63x128	340	276	160	20

Disclaimer

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.