# **COMPONENT SPECIFICATION**

**SERIES NAME** Metallized Polypropylene Film Capacitors

(MPP-AC MOTOR RUN CAPACITOR)

**DEKI PART NO.** 173 305 J 14 1 B

**APPLICATION** AC MOTOR RUN FOR AIRCON APPLICATON

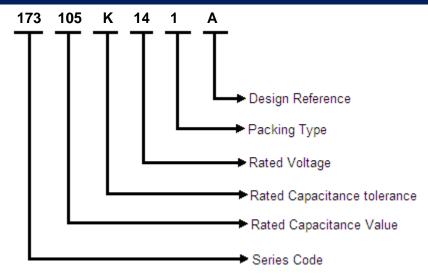


GIVEN BY: DEKI ELECTRONICS LTD · APPROVED BY: ROHIT

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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:

#### **Capacitance Tolerance**

 $F = \pm 1\%$ ,  $G = \pm 2\%$ , H = 2.5%,  $I = \pm 3.5\%$ ,  $J = \pm 5\%$ ,  $K = \pm 10\%$ ,  $L = \pm 15\%$ ,  $M = \pm 20\%$ ,  $N = \pm 30\%$ 

#### **Rated Voltage**

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

## **Rated Voltage Codification**

For DC Rated Voltage													
Α		В		С		D		Е		F			}
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
F	H			Ĵ		K		L		М		Ν	
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
0		F	P Q		C C	R		S		T		U	
10	110	1P	120	1Q	57.5	1R	15	1S	17	1T	70	1U	130
20	1100	2P	1200	2Q	575	2R	150	2S	170	2T	700	2U	1300
30	11000	3P	12000	3Q	5750	3R	1500	3S	1700	3T	70000	3U	13000

For AC Rated Voltage													
1	2	3	4	5	6	7	8	9	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

## **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	40/85/21
Rated Temperature	85°C
Rated Frequency	50Hz
Reference Standards	IEC 60252-1
Dielectric	Polypropylene
Electrodes	Metallized
Class of safety protection	S3/P2
Self-Healing property	Yes
Construction	Mono
Encapsulation	Incased in flame retardant box
Leads	Tinned wire
Rated AC voltage	450 VAC

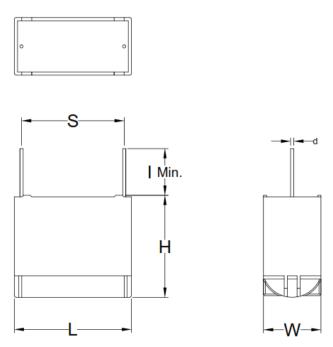
Marking example

Deki S: 2993 MPP-SH SM00121583 3.0μF±5% 450 VAC 50 Hz CLASS-B S3/P2 40/85/21 MM/YY

Compatibility to RoHS



## **Dimension Description**



Item Code	Cap. in µF	Tolerance	W (±1.0)	H (±1.0)	L (±1.0)	S (±0.5)	d (±0.05)	l (Min.)
173 305 J 14 1 B	3.0	±5%	18.5	31.0	36.5	32.0	1.0	15.0

<sup>\*</sup>All dimension in mm

Specific Data		
Description	Value	
Maximum tangent of loss angle	At 1 kHz	
	0.002	
Voltage proof test between leads	2 X Rated Voltage for 2 seconds	
IR between leads at 500 VDC	≥1000 MΩ	

#### **Endurance Test**

Loaded at 1.25 times of rated voltage at 85° C for 2000 hours.

**After The Test** 

 $\Delta$ C/C :  $\leq$  3% of initial value.

#### **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: ≤85%

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.

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