

# COMPONENT SPECIFICATION

**SERIES NAME** Metallized Polypropylene Film Capacitors  
MPP-AC (Dip Type)  
**SERIES CODE** 17



**GIVEN BY:** DEKI ELECTRONICS LTD

**DEKI ELECTRONICS LTD**

B-20, SECTOR-58, NOIDA 201301

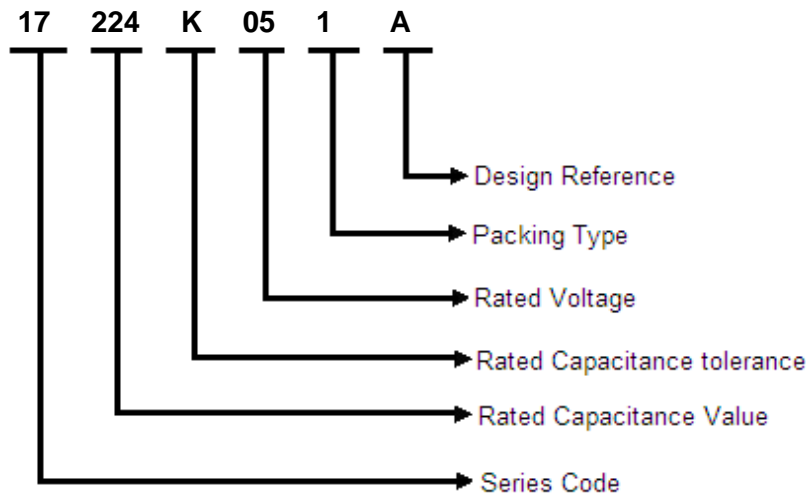
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# Metallized Polypropylene Film Capacitors

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## Part Number Description



## Rated Capacitance

Three-digit (224) 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 <sup>3</sup>	= 10000 pF	= 10 nF	= 0.01 μF
104 = 10 × 10 <sup>4</sup>	= 100000 pF	= 100 nF	= 0.1 μF
105 = 10 × 10 <sup>5</sup>	= 1000000 pF	= 1000 nF	= 1 μF
106 = 10 × 10 <sup>6</sup>	= 10000000 pF	= 10000 nF	= 10 μF

## Capacitance Tolerance

In 3<sup>rd</sup> group of the part number-

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

## Rated Voltage

In 4th group of the part number, one numeric digit and one letter (Ex.-2A) indicate DC voltage rating while two numeric digits (Ex.05) indicate AC voltage rating.

## Rated Voltage Codification

For DC Rated Voltage													
A		B		C		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
H		I		J		K		L		M		N	
1H	50	1I	45	1J	63	1K	70	1L	80	1M	85	1N	90
2H	500	2I	450	2J	630	2K	700	2L	800	2M	850	2N	900
3H	5000	3I	4500	3J	6300	3K	7000	3L	8000	3M	8500	3N	9000
O		P		Q		R		S		U		V	
1O	110	1P	120	1Q	57.5	1R	15	1S	17	1U	130	1V	60
2O	1100	2P	1200	2Q	575	2R	150	2S	170	2U	1300	2V	600
3O	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	15
190	250	275	305	310	440	500	600	700	63	230	330	400	350
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)

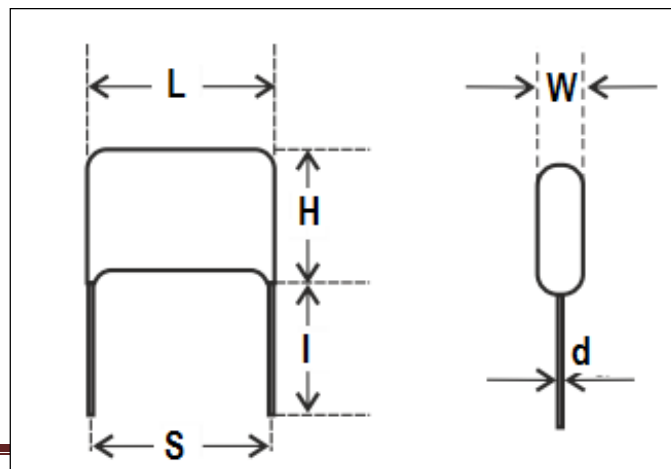
## Reference Data

Capacitance	0.01 $\mu$ F to 2.2 $\mu$ F
Capacitance Tolerance	$\pm$ 2% to $\pm$ 10%
Rated AC Voltage	250Vac to 500Vac
Climatic testing class according to IEC 60068-1	40/100/56
Maximum application temperature	100°C
Rated temperature	85°C
Reference standard	IEC 60384-17
Dielectric	Polypropylene
Electrodes	Metallized
Construction	Mono
Encapsulation	Coated with flame retardant epoxy powder
Leads	Tinned wire
Marking on capacitor body	Type of capacitor, rated capacitance, rated tolerance, rated voltage and traceability code will be available on each and every capacitor. Example- D473K5 9HAP023, or MPP-AC D105K310V 902231234

Compatibility to RoHS



## Dimensions Description



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Rated Voltage	Rated Capacitance (µF)	Dimensions (mm)					d (±0.05)	l	Part Number
		L (Max)	H (Max)	W (Max)	S				
250Vac	0.47	26	14.5	8.5	22.5±1.0	0.8	17 Min.	17 474 J 02 1 A	
	0.68	26	17	10	22.5±1.0	0.8	17 Min.	17 684 K 02 1 B	
	0.68	26	15	8	22.5±1.0	0.8	17 Min.	17 684 K 02 1 A	
	1	31	17	8	27.5±1.0	0.8	17 Min.	17 105 K 02 1 A	
275Vac	0.022	12.5	10	6	10±0.75	0.6	17 Min.	17 223 K 03 1 F	
	0.022	12.5	10	6	10±0.75	0.6	17 Min.	17 223 K 03 1 E	
	0.033	12.5	10	6	10±0.5	0.6	5±1.0	17 333 K 03 7 B	
	0.033	12.5	13	8	10±0.5	0.6	5±1.0	17 333 K 03 7 A	
	0.068	12.5	11	5.5	10±0.5	0.5	4.5±1.0	17 683 K 03 7 O	
	0.068	12.5	10	6	10±0.5	0.5	5±1.0	17 683 K 03 7 M	
	0.068	12.5	12	6	10±0.5	0.6	7±1.0	17 683 K 03 7 F	
	0.068	12.5	12	6	10±0.5	0.6	7.5±1.0	17 683 K 03 7 D	
	0.068	12.5	11	5.5	10±0.5	0.5	4.5±1.0	17 683 K 03 7 C	
	0.068	12.5	12	6	10±0.5	0.6	4±1.0	17 683 K 03 7 A	
	0.068	12.5	17	6	5±0.5	0.6	17 Min.	17 683 K 03 3 F	
	0.068	12.5	15	5.5	5±0.5	0.5	17 Min.	17 683 K 03 3 C	
	0.068	12.5	17	6	10±0.5	0.6	7±1.0	17 683 K 03 2 F	
	0.068	12.5	11	5.5	10±0.75	0.5	17 Min.	17 683 K 03 1 C	
	0.068	12.5	15	5.5	7.5±0.5	0.5	5±1.0	17 683 K 03 2 C	
	0.1	12.5	11	6	10±0.5	0.6	7.5±1.0	17 104 K 03 7 L	
	0.1	12.5	11	6	10±0.5	0.6	5±1.0	17 104 K 03 7 J	
	0.1	12.5	11	6	10±0.5	0.6	3.5±1.0	17 104 K 03 7 I	
	0.1	12.5	11	6	10±0.5	0.6	7.5±1.0	17 104 K 03 7 H	
	0.1	12.5	11	6	10±0.5	0.6	7.5±1.0	17 104 K 03 7 F	
	0.1	12.5	11	6	10±0.5	0.6	7.5±1.0	17 104 K 03 7 C	
	0.1	12.5	11	6	10±0.5	0.6	5±1.0	17 104 K 03 7 A	
	0.1	12.5	16	6	5±0.5	0.5	17 Min.	17 104 K 03 3 G	
	0.1	12.5	16	6	7.5±0.5	0.6	5±1.0	17 104 K 03 2 B	
	0.1	12.5	16	6	5±0.5	0.6	5±1.0	17 104 K 03 2 A	
	0.1	12.5	11	6	10±0.75	0.6	17 Min.	17 104 K 03 1 A	
0.1	12.5	11	6	10±0.75	0.6	17 Min.	17 104 J 03 1 A		
0.15	12.5	13	7	10±0.5	0.6	7.5±1.0	17 154 K 03 7 L		
0.15	12.5	13	7	10±0.5	0.6	7.5±1.0	17 154 K 03 7 F		
0.15	12.5	13	7	10±0.5	0.6	7.5±1.0	17 154 K 03 7 C		
0.15	12.5	13	7	10±0.5	0.6	4.5±1.0	17 154 K 03 7 A		
0.15	12.5	18	7	10±0.5	0.6	5±1.0	17 154 K 03 2 F		
0.15	12.5	13	7	10±0.75	0.6	17 Min.	17 154 K 03 1 A		
0.22	12.5	15	8	10±0.5	0.6	4.6±1.0	17 224 K 03 7 B		
0.22	17.5	16.5	6	15±0.5	0.8	17 Min.	17 224 K 03 4 C		
0.22	17.5	14	6.5	12±0.5	0.8	5±1.0	17 224 K 03 2 O		
0.22	17.5	14	6.5	12±0.5	0.8	8±1.0	17 224 K 03 2 E		

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		L (Max)	H (Max)	W (Max)	S				
	0.22	17.5	11.5	6.5	15±0.75	0.8	17 Min.	17 224 K 03 1 O	
	0.22	17.5	11.5	6.5	15±0.75	0.8	17 Min.	17 224 K 03 1 E	
275Vac	0.22	12.5	15	8	10±0.75	0.6	17 Min.	17 224 K 03 1 A	
	0.33	17.5	14	6.5	12±0.5	0.8	8±1.0	17 334 K 03 2 E	
	0.33	17.3	14.8	6.2	12±0.5	0.8	8±1.0	17 334 K 03 2 B	
	0.33	17.5	11.5	6.5	15±0.75	0.8	17 Min.	17 334 K 03 1 A	
	0.33	17.5	11.5	6.5	15±0.75	0.8	17 Min.	17 334 K 03 1 E	
	0.33	17.5	14.5	8	15±0.75	0.8	17 Min.	17 394 K 03 1 A	
	0.47	17.5	17	7.5	15±0.75	0.8	17 Min.	17 474 K 03 1 E	
	0.47	17.5	14.5	8.5	15±0.75	0.8	17 Min.	17 474 K 03 1 A	
	0.56	17.5	15.5	9.5	15±0.75	0.8	17 Min.	17 564 K 03 1 A	
	0.68	17.5	17	9.5	15±0.75	0.8	17 Min.	17 684 K 03 1 A	
	0.75	17.5	18	10	15±0.75	0.8	17 Min.	17 754 K 03 1 A	
	0.82	26	20	11	22.5±1.0	0.8	17 Min.	17 824 K 03 1 B	
305Vac	0.1	12.5	11	6.5	10±0.75	0.6	17 Min.	17 104 K 04 1 A	
	0.15	17.5	13	6	15±0.5	0.8	7.5±1.0	17 154 K 04 7 N	
	0.15	12.5	13	7.5	10±0.5	0.6	7.5±1.0	17 154 K 04 7 A	
	0.15	12.5	13	7.5	10±0.75	0.6	17 Min.	17 154 K 04 1 A	
	0.22	17.5	15	9	15±0.5	0.8	4.5±1.0	17 224 K 04 7 N	
	0.33	17.5	16	10	15±0.75	0.8	17 Min.	17 334 K 04 1 B	
310Vac	0.033	12.5	10	6	10±0.75	0.6	17 Min.	17 333 K 05 1 A	
	0.047	12.5	10.5	6	10±0.5	0.6	7.5±1.0	17 473 K 05 7 R	
	0.047	12.5	10.5	6	10±0.5	0.6	5±1.0	17 473 K 05 7 Q	
	0.047	12.5	10.5	6	10±0.5	0.6	7.5±1.0	17 473 K 05 7 F	
	0.047	12.5	10.5	6	10±0.5	0.6	5±1.0	17 473 K 05 7 B	
	0.047	12.5	10.5	6	10±0.5	0.6	5±1.0	17 473 K 05 7 A	
	0.047	12.5	10.5	6	10±0.75	0.6	17 Min.	17 473 K 05 1 B	
	0.047	12.5	10.5	6	10±0.75	0.6	17 Min.	17 473 K 05 1 A	
	0.068	12.5	12	6	10±0.5	0.6	5±1.0	17 683 K 05 7 A	
	0.068	12.5	16	6	5±0.5	0.6	5±1.0	17 683 K 05 2 A	
	0.068	12.5	11	5.5	10±0.75	0.5	17 Min.	17 683 K 05 1 C	
	0.068	12.5	11	5.5	10±0.5	0.5	4.5±1.0	17 683 K 05 7 C	
	0.068	12.5	10	6	10±0.5	0.5	5±1.0	17 683 K 05 7 E	
	0.1	12.5	12.5	6.5	10±0.5	0.6	6±1.0	17 104 K 05 7 N	
	0.1	12.5	12.5	6.5	10±0.5	0.6	7.5±1.0	17 104 K 05 7 L	
	0.1	12.5	12.5	6.5	10±0.5	0.6	7.5±1.0	17 104 K 05 7 H	
	0.1	12.5	12.5	6.5	10±0.5	0.6	7.5±1.0	17 104 K 05 7 F	
	0.1	12.5	12.5	6.5	10±0.5	0.6	5±1.0	17 104 K 05 7 A	
	0.1	12.5	12.5	6.5	10±0.75	0.6	17 Min.	17 104 K 05 1 F	
	0.15	12.5	13.5	7.5	10±0.5	0.6	4.5±1.0	17 154 K 05 7 F	
	0.15	12.5	13.5	7.5	10±0.75	0.6	17 Min.	17 154 K 05 1 F	
	0.22	12.5	15.5	8	10±0.75	0.6	17 Min.	17 224 K 05 1 C	
	0.22	17.5	15.5	8	15±0.75	0.8	17 Min.	17 224 K 05 1 L	

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Rated Voltage	Rated Capacitance (µF)	L (Max)	H (Max)	W (Max)	S	d (±0.05)	l	Part Number
	0.22	17.5	15.5	8	15±0.75	0.8	17 Min.	17 224 K 05 1 A
	0.3	17.5	19	8.5	15±0.75	0.8	17 Min.	17 304 J 05 1 A
310Vac	0.3	17.5	19	8.5	15±0.75	0.8	17 Min.	17 304 I 05 1 A
	0.47	26	15.5	8	22.5±1.0	0.8	17 Min.	17 474 K 05 1 A
	0.68	17.5	22.5	13.5	15±0.75	0.8	17 Min.	17 684 K 05 1 D
350Vac	0.33	17.5	15	9	15±0.75	0.8	17 Min.	17 334 K 15 1 A
	0.33	17.5	15	9	15±0.75	0.8	17 Min.	17 334 K 15 1 E
440Vac	0.011	17.5	12.5	5.5	15±0.75	0.8	17 Min.	17 113 J 06 1 A
	0.022	12.5	16	7	10±0.5	0.6	17 Min.	17 223 K 06 5 A
	0.022	12.5	12	7	10±0.75	0.6	17 Min.	17 223 K 06 1 A
	0.033	12.5	12	7	10±0.75	0.6	17 Min.	17 333 K 06 1 A
	0.047	17.5	11	6	15±0.75	0.8	17 Min.	17 473 K 06 1 E
	0.047	17.5	11	6	15±0.75	0.8	17 Min.	17 473 K 06 1 B
	0.068	17.5	14	8	15±0.75	0.8	17 Min.	17 683 K 06 1 B
	0.1	17.5	12	7	15±0.75	0.8	17 Min.	17 104 K 06 1 H
	0.1	17.5	12	7	15±0.75	0.8	17 Min.	17 104 K 06 1 A
	0.1	17.5	15	7	15±0.75	0.8	17 Min.	17 104 J 06 1 H
	0.13	17.5	13	8	15±0.75	0.8	17 Min.	17 134 K 06 1 A
	0.18	26	13	7	22.5±0.5	0.8	4.5±1.0	17 184 K 06 7 B
	0.18	17.5	15	8	15±0.75	0.8	17 Min.	17 184 K 06 1 H
	0.18	26	14	8	22.5±1.0	0.8	17 Min.	17 184 K 06 1 D
	0.18	26	14	8	22.5±1.0	0.8	17 Min.	17 184 K 06 1 B
	0.18	17.5	15	8	15±0.75	0.8	17 Min.	17 184 K 06 1 A
	0.18	17.5	16	8	15±0.75	0.8	17 Min.	17 184 J 06 1 J
	0.18	17.5	15	8	15±0.75	0.8	17 Min.	17 184 J 06 1 H
	0.18	17.5	15	8	15±0.75	0.8	17 Min.	17 184 J 06 1 A
	0.19	26	13	8	22.5±0.5	0.8	4.5±1.0	17 194 J 06 7 B
	0.19	17.5	15	8	15±0.75	0.8	17 Min.	17 194 J 06 1 A
	0.2	26	14	8.5	22.5±1.0	0.8	17 Min.	17 204 K 06 1 B
	0.2	17.5	17	9	15±0.75	0.8	17 Min.	17 204 J 06 1 A
	0.2	17.5	17	9	15±0.75	0.8	17 Min.	17 204 K 06 1 A
	0.2	26	14	8.5	22.5±1.0	0.8	17 Min.	17 204 J 06 1 C
	0.2	26	14	8.5	22.5±1.0	0.8	17 Min.	17 204 J 06 1 B
	0.2	26	14	8.5	22.5±1.0	0.8	17 Min.	17 204 H 06 1 C
	0.21	17.5	17	9	15±0.75	0.8	17 Min.	17 214 K 06 1 B
	0.21	26	14	8.5	22.5±1.0	0.8	17 Min.	17 214 J 06 1 P
	0.21	26	14	8.5	22.5±1.0	0.8	17 Min.	17 214 J 06 1 H
	0.21	17.5	17	9	15±0.75	0.8	17 Min.	17 214 J 06 1 F
	0.21	17.5	17	9	15±0.75	0.8	17 Min.	17 214 J 06 1 E
	0.21	26	14	8.5	22.5±1.0	0.8	17 Min.	17 214 J 06 1 D
	0.21	26	14	8.5	22.5±1.0	0.8	17 Min.	17 214 J 06 1 C
	0.21	17.5	16	8	15±0.75	0.8	17 Min.	17 214 G 06 1 B
	0.22	17.5	17	9	15±0.75	0.8	17 Min.	17 224 K 06 1 B

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	0.22	17.5	17	9	15±0.75	0.8	17 Min.	17 224 J 06 1 B
	0.22	26	14	8.5	22.5±1.0	0.8	17 Min.	17 224 K 06 1 A
440Vac	0.22	26	14	8.5	22.5±1.0	0.8	17 Min.	17 224 J 06 1 A
	0.24	26	14	7.5	22.5±0.5	0.8	4.5±1.0	17 244 I 06 7 B
	0.3	17.5	18	11	15±0.75	0.8	17 Min.	17 304 K 06 1 B
	0.3	26	15	7.5	22.5±1.0	0.8	17 Min.	17 304 K 06 1 A
	0.3	17.5	18	11	15±0.75	0.8	17 Min.	17 304 J 06 1 P
	0.3	26	14	8	22.5±1.0	0.8	17 Min.	17 304 J 06 1 H
	0.3	17.5	18	11	15±0.75	0.8	17 Min.	17 304 J 06 1 B
	0.3	26	14	8	22.5±1.0	0.8	17 Min.	17 304 J 06 1 A
	0.3	17.5	18	11	15±0.75	0.8	17 Min.	17 304 I 06 1 B
	0.3	26	14	8	22.5±1.0	0.8	17 Min.	17 304 H 06 1 A
	0.33	26	16	8	22.5±0.5	0.8	5±1.0	17 334 K 06 7 A
	0.33	17.5	17	10.5	15±0.75	0.8	17 Min.	17 334 K 06 1 D
	0.33	26	16	8	22.5±1.0	0.8	17 Min.	17 334 K 06 1 C
	0.33	17.5	16.5	10	15±0.75	0.8	17 Min.	17 334 K 06 1 B
	0.33	26	16	8	22.5±1.0	0.8	17 Min.	17 334 K 06 1 A
	0.33	17.5	16.5	10	15±0.75	0.8	17 Min.	17 334 J 06 1 B
	0.33	26	16	8	22.5±1.0	0.8	17 Min.	17 334 J 06 1 A
	0.39	17.5	22	11	15±0.5	0.8	17 Min.	17 394 K 06 5 B
	0.39	31	16	9	27.5±1.0	0.8	17 Min.	17 394 K 06 1 C
	0.39	17.5	18	11	15±0.75	0.8	17 Min.	17 394 K 06 1 B
	0.39	26	16	9	22.5±1.0	0.8	17 Min.	17 394 K 06 1 A
	0.39	26	16	9	22.5±1.0	0.8	17 Min.	17 394 J 06 1 A
	0.41	17.5	18	12	15±0.75	0.8	17 Min.	17 414 K 06 1 D
	0.41	26	19	11	22.5±1.0	0.8	17 Min.	17 414 K 06 1 C
	0.41	26	19	11	22.5±1.0	0.8	17 Min.	17 414 K 06 1 B
	0.41	26	19	11	22.5±1.0	0.8	17 Min.	17 414 J 06 1 C
	0.41	26	13.25	6.8	22.5±0.5	0.8	4.5±1.0	17 414 I 06 7 H
	0.41	26	16	11	22.5±0.5	0.8	4.5±1.0	17 414 I 06 7 B
	0.47	26	19.5	9.5	22.5±1.0	0.8	17 Min.	17 474 K 06 1 H
	0.47	26	19.5	9.5	22.5±1.0	0.8	17 Min.	17 474 K 06 1 D
	0.47	26	17	10	22.5±1.0	0.8	17 Min.	17 474 K 06 1 C
	0.47	26	19.5	9.5	22.5±1.0	0.8	17 Min.	17 474 K 06 1 B
	0.47	26	19.5	9.5	22.5±1.0	0.8	17 Min.	17 474 K 06 1 A
	0.47	26	17	10	22.5±1.0	0.8	17 Min.	17 474 J 06 1 A
	0.51	26	17	10	22.5±1.0	0.8	17 Min.	17 514 K 06 1 B
	0.51	26	17	10	22.5±1.0	0.8	17 Min.	17 514 J 06 1 B
	0.55	17.5	20.5	13	15±0.75	0.8	17 Min.	17 554 I 06 1 C
	0.56	26	19	10	22.5±0.5	0.8	5±1.0	17 564 K 06 7 B
	0.56	17.5	20.5	13	15±0.75	0.8	17 Min.	17 564 K 06 1 C
	0.56	26	19	10	22.5±1.0	0.8	17 Min.	17 564 K 06 1 B
	0.56	17.5	24.5	13	22.5±0.5	0.8	14 Min.	17 564 K 06 5 C

# Metallized Polypropylene Film Capacitors

MPP-AC • Dip Type • Series Code 17



Rated Voltage	Rated Capacitance (μF)	L (Max)	H (Max)	W (Max)	S	d (±0.05)	l	Part Number
	0.56	31	17	9	27.5±1.0	0.8	17 Min.	17 564 J 06 1 A
	0.68	26	24	12	22.5±0.5	0.8	17 Min.	17 684 K 06 5 B
440Vac	0.68	26	19	12	22.5±1.0	0.8	17 Min.	17 684 K 06 1 Z
	0.68	26	19	12	22.5±1.0	0.8	17 Min.	17 684 K 06 1 D
	0.68	26	19	12	22.5±1.0	0.8	17 Min.	17 684 K 06 1 C
	0.68	26	19	12	22.5±1.0	0.8	17 Min.	17 684 K 06 1 B
	0.68	31	18	10	27.5±1.0	0.8	17 Min.	17 684 K 06 1 A
	0.68	26	19	12	22.5±1.0	0.8	17 Min.	17 684 J 06 1 C
	0.8	26	21	12	22.5±1.0	0.8	17 Min.	17 804 J 06 1 A
	0.8	26	21	12	22.5±1.0	0.8	17 Min.	17 804 K 06 1 A
	0.82	31	20.5	11	27.5±0.5	0.8	5±1.0	17 824 K 06 7 B
	0.82	26	20	11	22.5±1.0	0.8	17 Min.	17 824 K 06 1 B
	1	26	22	13	22.5±1.0	0.8	17 Min.	17 105 K 06 1 B
	1	31	20	12	27.5±1.0	0.8	17 Min.	17 105 K 06 1 A
	1	31	20	12	27.5±1.0	0.8	17 Min.	17 105 J 06 1 A
	1.2	31	21	11.5	27.5±1.0	0.8	17 Min.	17 125 K 06 1 A
	1.5	31	25	14	27.5±1.0	0.8	17 Min.	17 155 K 06 1 A
	1.7	31	26	15	27.5±1.0	0.8	17 Min.	17 175 K 06 1 A
	2	31	26.5	17.5	27.5±1.0	0.8	17 Min.	17 205 K 06 1 A
	2.2	31	27	16.5	27.5±1.0	0.8	17 Min.	17 225 K 06 1 A
500Vac	0.1	17.5	15	9	15±0.75	0.8	17 Min.	17 104 K 07 1 A
	0.22	26	14	8	22.5±1.0	0.8	17 Min.	17 224 K 07 1 A
	0.33	26	17	9	22.5±1.0	0.8	17 Min.	17 334 K 07 1 A
	0.47	26	20.5	10	22.5±1.0	0.8	17 Min.	17 474 K 07 1 A
	0.68	31	21	12	27.5±1.0	0.8	17 Min.	17 684 K 07 1 A
	0.85	31	30	18	27.5±1.0	0.8	17 Min.	17 854 K 07 1 A

## Specific Data

Description	Value			
Maximum tangent of loss angle (Tanδ)	Frequency	C <sub>R</sub> ≤0.1μF	0.1μF<C <sub>R</sub> ≤1μF	C <sub>R</sub> >1μF
	1 kHz	0.0008	0.0008	0.001
	10 kHz	0.0015	0.0030	-
	100 kHz	0.0050	-	-
Voltage proof test between leads	1200Vdc for rated voltage ≤310Vac; and 1250Vdc for rated voltage >310Vac, for 2 second			
Insulation Resistance (R <sub>IS</sub> )	C <sub>R</sub> ≤0.33μF	C <sub>R</sub> >0.33μF		
(or) time constant T= C <sub>R</sub> × R <sub>IS</sub>	≥100000MΩ	≥30000 s		

at 25° C, relative humidity ≤70%



## Endurance Test

Loaded at 1.1 times of rated voltage at 85°C or 1.1 times of the category voltage at 100°C for 1000 hours. Category voltage is 80% of the rated voltage.

After The Test

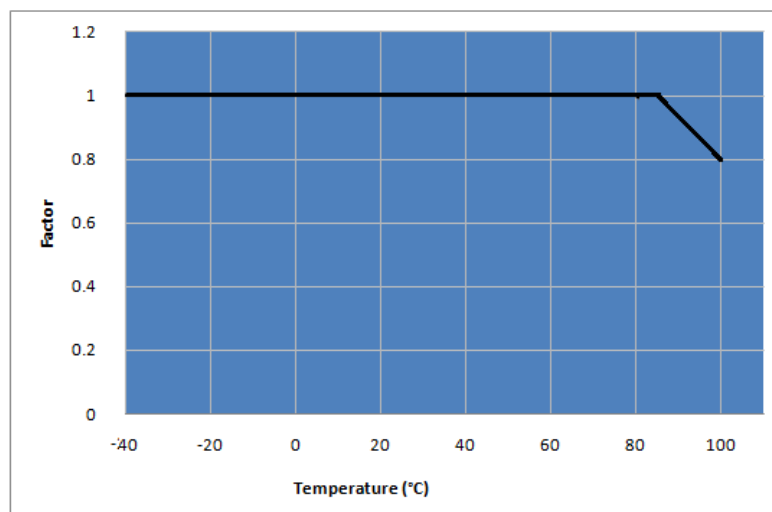
$\Delta C/C$  :  $\leq 10\%$  of initial value.

Increase of Tan  $\delta$  :  $\leq 0.005$  at 1 kHz

Insulation Resistance :  $\geq 50\%$  of the value mentioned in specific data.

## Temperature Derating Graph

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



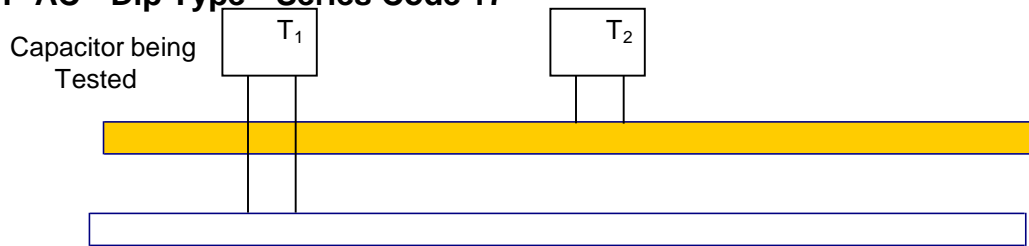
## Power Dissipation and Maximum Component Temperature Rise

After applying the A.C voltage to the capacitor with certain frequency, we can measure the hot spot temperature of the capacitor. From that we can calculate  $\Delta T$ .

$\Delta T$  = hot spot temperature – ambient temperature

# Metallized Polypropylene Film Capacitors

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T<sub>1</sub> is the capacitor under test (Connected in the circuit)

T<sub>2</sub> is capacitor which has no connection

Distance between T<sub>1</sub> and T<sub>2</sub> should be about 50mm and 100mm from other components. To avoid radiation or convection, the capacitor should be tested in a wind-free box. The capacitor under test is separated by polystyrene.

$$\Delta T_{\max} = T_1 - T_2$$

## Storage Conditions

at one frequency level the  $\Delta T_{\max}$  reach 10°C. That is the frequency which we have to start frequency derating.

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.