

## MMK SERIES

### ◆FEATURES

- Smaller version of MMW-HP series.
- For applications where high frequency, high current are required.  
(Switching power supply, lighting inverter, etc)
- Coated with flame-retardant (UL94 V-0) epoxy resin.
- RoHS compliance.

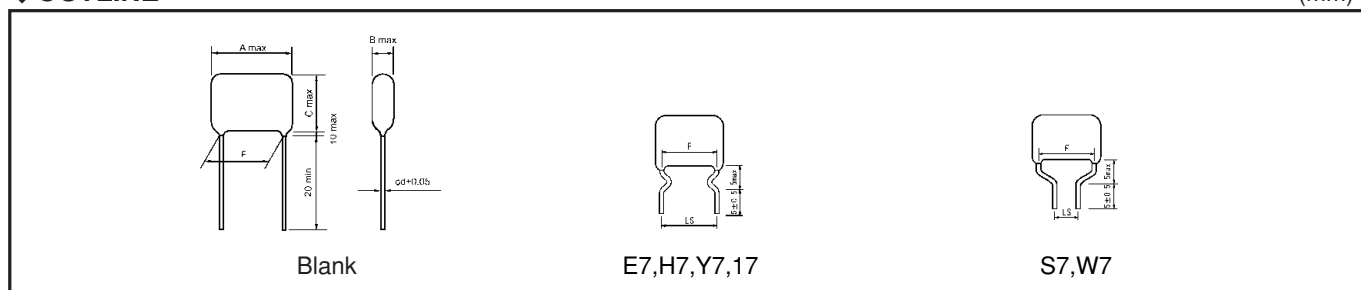


### ◆SPECIFICATIONS

Category temperature	$-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ Derate the voltage as shown in the Fig2 at P204 when using the capacitor beyond $85^{\circ}\text{C}$ .)
Rated voltage ( $U_R$ )	450VDC
Capacitance tolerance	$\pm 5\%(\text{J}), \pm 10\%(\text{K})$
$\tan \delta$	0.01max at 1kHz
Voltage proof	$U_R \times 150\%$ 60s
Insulation resistance	$0.33 \mu\text{F} \geq : 9000 \text{M}\Omega \text{ min}$ $0.33 \mu\text{F} < : 3000 \Omega \text{ Fmin}$
Reference standard	JIS C 5101-2, JIS C 5101-1

### ◆OUTLINE

(mm)



### ◆PART NUMBER

$\frac{450}{\text{Rated Voltage}}$    
  $\frac{\text{MMK}}{\text{Series}}$    
  $\frac{\square\square\square}{\text{Rated capacitance}}$    
  $\frac{\square}{\text{Tolerance}}$    
  $\frac{\square\square\square}{\text{Sub mark}}$    
  $\frac{\square\square}{\text{Suffix}}$

Symbol	$U_R$
450	450VDC

Symbol	Tolerance
J	$\pm 5\%$
K	$\pm 10\%$

Symbol	Lead style	Symbol	Lead style
Blank	Long lead type	S7	Lead forming cut LS=5.0
E7	Lead forming cut LS=7.5	W7	Lead forming cut LS=7.5
H7	Lead forming cut LS=10.0		
Y7	Lead forming cut LS=15.0		
77	Lead forming cut LS=20.0		

**◆DIMENSIONS AND QUANTITY**
**◆RATED VOLTAGE : 450VDC**

Part No.	cap( $\mu$ F)	Dimensions (mm)						Typical Packaging Quantity (pcs)						
								Long Lead type		Taping Ammo pack type - style				
		A	B	C	F $\pm$ 1.0	LS $\pm$ 0.5	d	Bag	Carton	A TC	B, D TX, TH	C TL, TJ	E TN	S TS
450MMK473□**	0.047	10.0	5.0	11.0	7.5	5.0/7.5	0.6	200	5,000	—	—	—	—	—
450MMK563□**	0.056	10.0	5.5	11.5	7.5	5.0/7.5	0.6	200	5,000	—	—	—	—	—
450MMK683□**	0.068	10.0	6.0	11.5	7.5	5.0/7.5	0.6	200	4,000	—	—	—	—	—
450MMK823□**	0.082	10.0	7.5	12.0	7.5	5.0/7.5	0.8	200	3,000	—	—	—	—	—
450MMK104□**	0.1	10.0	7.5	14.0	7.5	5.0/7.5	0.8	100	3,000	—	—	—	—	—
450MMK124□**	0.12	10.0	8.0	14.5	7.5	5.0/7.5	0.8	100	3,000	—	—	—	—	—
450MMK154□**	0.15	10.0	8.0	15.0	7.5	5.0/7.5	0.8	100	3,000	—	—	—	—	—
450MMK184□**	0.18	13.0	7.0	14.0	10.0	5.0/7.5/10.0	0.8	100	3,000	—	—	—	—	—
450MMK224□**	0.22	13.0	8.0	16.0	10.0	5.0/7.5/10.0	0.8	100	2,000	—	—	—	—	—
450MMK274□**	0.27	13.0	8.0	17.5	10.0	5.0/7.5/10.0	0.8	100	2,000	—	—	—	—	—
450MMK334□**	0.33	13.0	8.5	18.5	10.0	5.0/7.5/10.0	0.8	100	2,000	—	—	—	—	—
450MMK394□**	0.39	13.0	9.0	19.0	10.0	5.0/7.5/10.0	0.8	100	1,500	—	—	—	—	—
450MMK474□**	0.47	13.0	10.5	20.0	10.0	5.0/7.5/10.0	0.8	50	1,500	—	—	—	—	—
450MMK564□**	0.56	13.0	11.0	20.5	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—
450MMK684□**	0.68	13.0	12.0	22.5	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—
450MMK824□**	0.82	13.0	13.0	23.5	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—
450MMK105□**	1.0	13.0	15.0	25.0	10.0	5.0/7.5/10.0	1.0	200	800	—	—	—	—	—
450MMK125□**	1.2	13.0	15.5	26.5	10.0	5.0/7.5/10.0	1.0	100	500	—	—	—	—	—
450MMK155□**	1.5	18.0	13.5	23.5	15.0	5.0/7.5/15.0	1.0	100	500	—	—	—	—	—
450MMK185□**	1.8	18.0	15.0	25.0	15.0	5.0/7.5/15.0	1.0	100	500	—	—	—	—	—
450MMK225□**	2.2	18.0	17.0	27.0	15.0	5.0/7.5/15.0	1.0	100	500	—	—	—	—	—
450MMK275□**	2.7	23.0	15.5	26.0	20.0	20.0	1.0	100	400	—	—	—	—	—
450MMK335□**	3.3	23.0	17.0	27.5	20.0	20.0	1.0	50	400	—	—	—	—	—
450MMK395□**	3.9	23.0	19.0	29.0	20.0	20.0	1.0	50	400	—	—	—	—	—

□ :Tolerance (J:±5%, K:±10%)      \*\* : Suffix

**◆PERMISSIBLE CURRENT FOR FREQUENCY**
