

MPS SERIES

◆ FEATURES

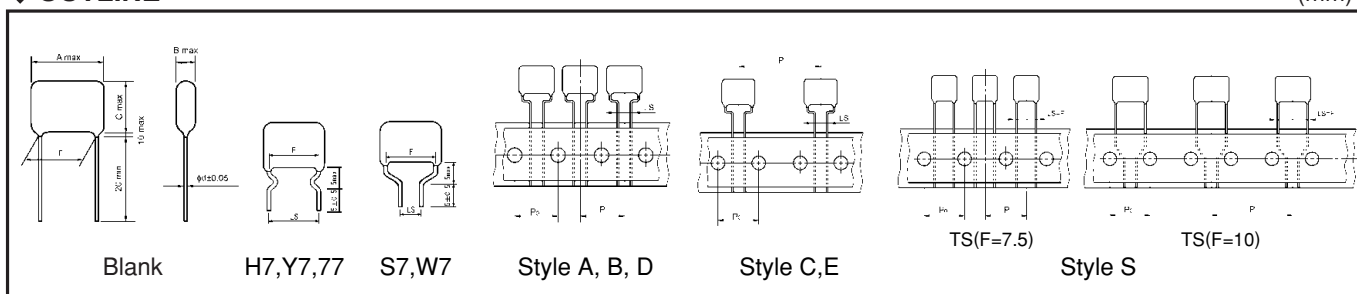
- Low dissipation factor, small and high current.
- For applications where high frequency, high current are required.
(TV, display monitor, power supply, lighting Inverter, etc)
- Coated with flame-retardant (UL94 V-0) epoxy resin.
- RoHS compliance.



◆ SPECIFICATIONS

Category temperature	-40°C~+105°C
Rated voltage (U _R)	250VDC, 450VDC, 630VDC
Capacitance tolerance	±3%(H), ±5%(J), ±10%(K)
tanδ	0.001max at 1kHz
Voltage proof	U _R ×150% 60s
Insulation resistance	0.33 μF ≥:25000MΩmin 0.33 μF <: 7500ΩFmin
Reference standard	JIS C 5101-16, JIS C 5101-1

◆ OUTLINE



◆ PART NUMBER

□□□
Rated Voltage

MPS
Series

□□□
Rated capacitance

□
Tolerance

□□□
Sub mark

□□
Suffix

Symbol	U _R
250	250VDC
450	450VDC
630	630VDC

Symbol	Tolerance
H	± 3%
J	± 5%
K	±10%

Symbol	Lead style	Symbol	Lead style
Blank	Long lead type	TX	Style B, Ammo pack P=15.0 Po=15.0 LS=5.0
H7	Lead forming cut LS=10.0	TL(F=10) TJ(F≥15)	Style C, Ammo pack P=25.4 Po=12.7 LS=5.0
Y7	Lead forming cut LS=15.0	TH	Style D, Ammo pack P=15.0 Po=15.0 LS=7.5
77	Lead forming cut LS=20.0	TN	Style E, Ammo pack P=30.0 Po=15.0 LS=7.5
S7	Lead forming cut LS=5.0	TS(F=7.5)	Style S, Ammo pack P=12.7 Po=12.7
W7	Lead forming cut LS=7.5	TS(F=10)	Style S, Ammo pack P=25.4 Po=12.7

◆ DIMENSIONS AND QUANTITY
◆ RATED VOLTAGE : 250VDC

Part No.	cap(μF)	Dimensions (mm)						Typical Packaging Quantity (pcs)						
								Long Lead type		Taping Ammo pack type - style				
		A	B	C	F ± 1.0	LS ± 0.5	d	Bag	Carton	A TC	B, D TX, TH	C TL, TJ	E TN	S TS
250MPS103□**	0.01	13.0	6.0	9.5	10.0	5.0/7.5/10.0	0.6	200	4,000	-	500	400	-	400
250MPS123□**	0.012	13.0	6.5	10.0	10.0	5.0/7.5/10.0	0.6	200	4,000	-	500	400	-	400
250MPS153□**	0.015	13.0	7.0	10.5	10.0	5.0/7.5/10.0	0.6	200	3,000	-	500	400	-	400
250MPS183□**	0.018	13.0	7.5	11.0	10.0	5.0/7.5/10.0	0.6	100	3,000	-	500	400	-	400
250MPS223□**	0.022	13.0	8.0	11.5	10.0	5.0/7.5/10.0	0.6	100	3,000	-	500	400	-	400
250MPS273□**	0.027	13.0	8.0	13.0	10.0	5.0/7.5/10.0	0.6	100	2,000	-	500	400	-	400
250MPS333□**	0.033	13.0	5.5	10.5	10.0	5.0/7.5/10.0	0.6	200	4,000	-	500	400	-	400
250MPS393□**	0.039	13.0	5.5	11.0	10.0	5.0/7.5/10.0	0.6	200	4,000	-	500	400	-	400
250MPS473□**	0.047	13.0	6.0	11.5	10.0	5.0/7.5/10.0	0.6	200	3,000	-	500	400	-	400
250MPS563□**	0.056	13.0	6.5	12.0	10.0	5.0/7.5/10.0	0.6	100	3,000	-	500	400	-	400
250MPS683□**	0.068	13.0	6.0	11.0	10.0	5.0/7.5/10.0	0.6	200	4,000	-	500	400	-	400
250MPS823□**	0.082	13.0	6.5	11.5	10.0	5.0/7.5/10.0	0.6	200	3,000	-	500	400	-	400
250MPS104□**	0.1	13.0	6.0	11.0	10.0	5.0/7.5/10.0	0.6	200	4,000	-	500	400	-	400
250MPS124□**	0.12	13.0	6.5	11.5	10.0	5.0/7.5/10.0	0.6	200	3,000	-	500	400	-	400
250MPS154□**	0.15	13.0	7.0	12.0	10.0	5.0/7.5/10.0	0.6	100	3,000	-	500	400	-	400
250MPS184□**	0.18	13.0	6.0	11.5	10.0	5.0/7.5/10.0	0.6	200	3,000	-	500	400	-	400
250MPS224□**	0.22	13.0	6.0	13.0	10.0	5.0/7.5/10.0	0.6	100	3,000	-	500	400	-	400
250MPS274□**	0.27	13.0	6.5	13.5	10.0	5.0/7.5/10.0	0.6	100	3,000	-	500	400	-	400
250MPS334□**	0.33	13.0	7.5	14.0	10.0	5.0/7.5/10.0	0.6	100	2,000	-	500	400	-	400
250MPS394□**	0.39	18.0	5.5	14.0	15.0	5.0/7.5/15.0	0.6	100	2,000	-	-	400	400	-
250MPS474□**	0.47	18.0	6.0	14.5	15.0	5.0/7.5/15.0	0.6	100	2,000	-	-	400	400	-
250MPS564□**	0.56	18.0	6.5	15.0	15.0	5.0/7.5/15.0	0.6	100	2,000	-	-	400	400	-
250MPS684□**	0.68	18.0	7.5	16.0	15.0	5.0/7.5/15.0	0.8	50	1,500	-	-	400	400	-
250MPS824□**	0.82	18.0	8.0	16.5	15.0	5.0/7.5/15.0	0.8	50	1,500	-	-	400	300	-
250MPS105□**	1.0	18.0	9.0	17.5	15.0	5.0/7.5/15.0	0.8	50	1,000	-	-	400	300	-
250MPS125□**	1.2	18.0	9.5	18.0	15.0	5.0/7.5/15.0	0.8	50	1,000	-	-	400	300	-
250MPS155□**	1.5	23.0	8.5	18.5	20.0	20.0	0.8	200	1,000	-	-	-	300	-
250MPS185□**	1.8	23.0	9.5	19.5	20.0	20.0	0.8	200	800	-	-	-	300	-
250MPS225□**	2.2	23.0	10.5	20.5	20.0	20.0	0.8	200	800	-	-	-	300	-
250MPS275□**	2.7	23.0	12.0	22.0	20.0	20.0	0.8	100	500	-	-	-	-	-
250MPS335□**	3.3	23.0	13.0	23.5	20.0	20.0	1.0	100	500	-	-	-	-	-
250MPS395□**	3.9	23.0	14.5	24.5	20.0	20.0	1.0	100	500	-	-	-	-	-
250MPS475□**	4.7	23.0	16.0	26.0	20.0	20.0	1.0	100	400	-	-	-	-	-

□ : Tolerance (H: ±3%, J: ±5%, K: ±10%) ** : Suffix

◆ RATED VOLTAGE : 450VDC

Part No.	cap(μF)	Dimensions (mm)						Typical Packaging Quantity (pcs)						
								Long Lead type		Taping Ammo pack type - style				
		A	B	C	F ± 1.0	LS ± 0.5	d	Bag	Carton	A TC	B, D TX, TH	C TL, TJ	E TN	S TS
450MPS103□**	0.01	13.0	6.0	9.5	10.0	5.0/7.5/10.0	0.6	200	4,000	-	500	400	-	400
450MPS123□**	0.012	13.0	6.5	10.0	10.0	5.0/7.5/10.0	0.6	200	4,000	-	500	400	-	400
450MPS153□**	0.015	13.0	7.0	10.5	10.0	5.0/7.5/10.0	0.6	200	3,000	-	500	400	-	400
450MPS183□**	0.018	13.0	7.5	11.0	10.0	5.0/7.5/10.0	0.6	100	3,000	-	500	400	-	400
450MPS223□**	0.022	13.0	8.0	11.5	10.0	5.0/7.5/10.0	0.6	100	3,000	-	500	400	-	400
450MPS273□**	0.027	13.0	8.0	13.0	10.0	5.0/7.5/10.0	0.6	100	2,000	-	500	400	-	400
450MPS333□**	0.033	13.0	5.5	10.5	10.0	5.0/7.5/10.0	0.6	200	4,000	-	500	400	-	400
450MPS393□**	0.039	13.0	5.5	11.0	10.0	5.0/7.5/10.0	0.6	200	4,000	-	500	400	-	400
450MPS473□**	0.047	13.0	6.0	11.5	10.0	5.0/7.5/10.0	0.6	200	3,000	-	500	400	-	400
450MPS563□**	0.056	13.0	6.5	12.0	10.0	5.0/7.5/10.0	0.6	100	3,000	-	500	400	-	400
450MPS683□**	0.068	13.0	7.0	12.5	10.0	5.0/7.5/10.0	0.6	100	3,000	-	500	400	-	400
450MPS823□**	0.082	13.0	7.5	13.0	10.0	5.0/7.5/10.0	0.6	100	2,000	-	500	400	-	400
450MPS104□**	0.1	18.0	6.5	12.0	15.0	5.0/7.5/15.0	0.8	100	2,000	-	-	400	400	-
450MPS124□**	0.12	18.0	7.0	12.5	15.0	5.0/7.5/15.0	0.8	100	2,000	-	-	400	400	-
450MPS154□**	0.15	18.0	7.0	14.0	15.0	5.0/7.5/15.0	0.8	100	2,000	-	-	400	400	-
450MPS184□**	0.18	18.0	8.0	14.5	15.0	5.0/7.5/15.0	0.8	100	1,500	-	-	400	400	-
450MPS224□**	0.22	18.0	8.5	15.5	15.0	5.0/7.5/15.0	0.8	50	1,500	-	-	400	300	-
450MPS274□**	0.27	18.0	9.5	16.0	15.0	5.0/7.5/15.0	0.8	50	1,000	-	-	300	300	-
450MPS334□**	0.33	18.0	9.5	18.0	15.0	5.0/7.5/15.0	0.8	50	1,000	-	-	300	300	-
450MPS394□**	0.39	18.0	10.5	19.0	15.0	5.0/7.5/15.0	0.8	200	1,000	-	-	300	300	-
450MPS474□**	0.47	18.0	12.0	20.0	15.0	5.0/7.5/15.0	0.8	200	800	-	-	300	200	-
450MPS564□**	0.56	23.0	11.0	19.0	20.0	20.0	0.8	200	800	-	-	-	-	-
450MPS684□**	0.68	23.0	11.5	21.5	20.0	20.0	0.8	100	500	-	-	-	-	-
450MPS824□**	0.82	23.0	12.5	22.5	20.0	20.0	0.8	100	500	-	-	-	-	-
450MPS105□**	1.0	23.0	14.0	24.0	20.0	20.0	0.8	100	500	-	-	-	-	-
450MPS125□**	1.2	23.0	15.0	25.5	20.0	20.0	1.0	100	500	-	-	-	-	-
450MPS155□**	1.5	23.0	17.0	27.0	20.0	20.0	1.0	50	400	-	-	-	-	-
450MPS185□**	1.8	23.0	18.5	29.0	20.0	20.0	1.0	50	400	-	-	-	-	-
450MPS225□**	2.2	23.0	21.0	31.0	20.0	20.0	1.0	50	300	-	-	-	-	-

□ : Tolerance (H: ±3%, J: ±5%, K: ±10%) ** : Suffix

◆ RATED VOLTAGE : 630VDC

Part No.	cap(μF)	Dimensions (mm)						Typical Packaging Quantity (pcs)						
								Long Lead type		Taping Ammo pack type - style				
		A	B	C	F ±1.0	LS±0.5	d	Bag	Carton	A TC	B, D TX, TH	C TL, TJ	E TN	S TS
630MPS103□**	0.01	13.0	6.0	9.5	10.0	5.0/7.5/10.0	0.6	200	4,000	—	500	400	—	400
630MPS123□**	0.012	13.0	6.5	10.0	10.0	5.0/7.5/10.0	0.6	200	4,000	—	500	400	—	400
630MPS153□**	0.015	13.0	7.0	10.5	10.0	5.0/7.5/10.0	0.6	200	3,000	—	500	400	—	400
630MPS183□**	0.018	13.0	7.5	11.0	10.0	5.0/7.5/10.0	0.6	100	3,000	—	500	400	—	400
630MPS223□**	0.022	13.0	8.0	11.5	10.0	5.0/7.5/10.0	0.6	100	3,000	—	500	400	—	400
630MPS273□**	0.027	13.0	8.0	13.0	10.0	5.0/7.5/10.0	0.6	100	2,000	—	500	400	—	400
630MPS333□**	0.033	13.0	8.5	14.0	10.0	5.0/7.5/10.0	0.8	100	2,000	—	500	400	—	400
630MPS393□**	0.039	13.0	9.0	14.5	10.0	5.0/7.5/10.0	0.8	100	2,000	—	500	400	—	400
630MPS473□**	0.047	18.0	6.5	12.0	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	400	400	—
630MPS563□**	0.056	18.0	7.0	12.5	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	400	400	—
630MPS683□**	0.068	18.0	7.5	13.0	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	400	400	—
630MPS823□**	0.082	18.0	8.0	13.5	15.0	5.0/7.5/15.0	0.8	100	1,500	—	—	400	400	—
630MPS104□**	0.1	18.0	9.0	14.0	15.0	5.0/7.5/15.0	0.8	50	1,500	—	—	400	300	—
630MPS124□**	0.12	18.0	9.5	15.0	15.0	5.0/7.5/15.0	0.8	50	1,000	—	—	300	300	—
630MPS154□**	0.15	18.0	10.5	16.0	15.0	5.0/7.5/15.0	0.8	50	1,000	—	—	300	300	—
630MPS184□**	0.18	18.0	11.0	18.0	15.0	5.0/7.5/15.0	0.8	200	1,000	—	—	300	—	—
630MPS224□**	0.22	18.0	12.0	19.0	15.0	5.0/7.5/15.0	0.8	200	800	—	—	300	—	—
630MPS274□**	0.27	23.0	11.0	18.0	20.0	20.0	0.8	200	800	—	—	—	—	—
630MPS334□**	0.33	23.0	11.5	20.0	20.0	20.0	0.8	100	500	—	—	—	—	—
630MPS394□**	0.39	23.0	12.5	21.0	20.0	20.0	0.8	100	500	—	—	—	—	—
630MPS474□**	0.47	23.0	13.0	23.5	20.0	20.0	0.8	100	500	—	—	—	—	—
630MPS564□**	0.56	23.0	14.5	24.5	20.0	20.0	1.0	100	500	—	—	—	—	—
630MPS684□**	0.68	23.0	16.0	26.0	20.0	20.0	1.0	50	400	—	—	—	—	—
630MPS824□**	0.82	23.0	17.5	27.5	20.0	20.0	1.0	50	400	—	—	—	—	—
630MPS105□**	1.0	23.0	19.5	29.5	20.0	20.0	1.0	50	300	—	—	—	—	—

□ :Tolerance (H: ±3%, J: ±5%, K: ±10%) ** : Suffix

◆ PERMISSIBLE CURRENT FOR FREQUENCY
