

MPH SERIES

Low D.F, Low ESR

- Miniaturized and Low ESR with vertically long shape.
- Low buzz.
- For applications where high frequency and high current are required. (Switching power supply, lighting Inverter, etc)
- Coated with flame-retardant (UL94 V-0) epoxy resin.

RoHS compliance

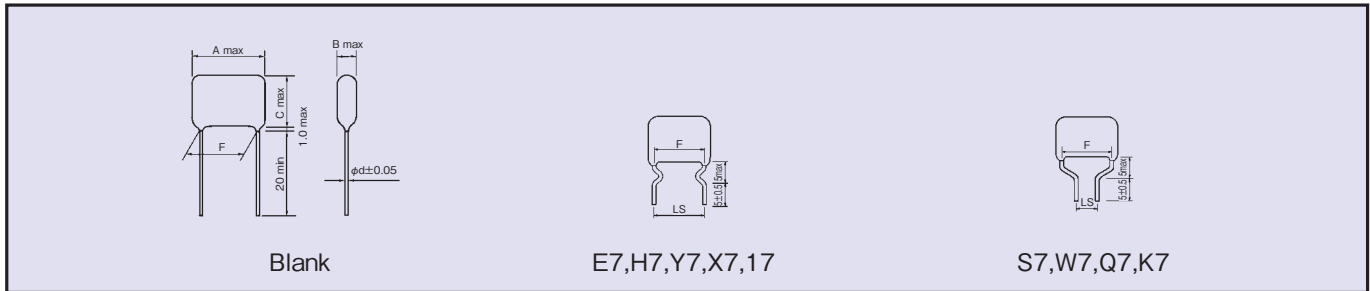


◆SPECIFICATIONS

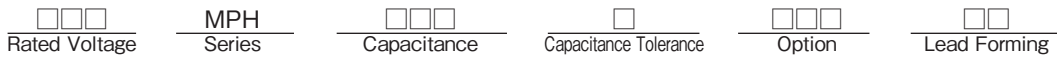
Category Temperature Range	-40~+105°C
Rated Voltage (U _R)	100Vdc, 250Vdc, 450Vdc, 630Vdc, 800Vdc
Capacitance Tolerance	±3%(H), ±5%(J), ±10%(K)
tanδ	0.001max at 1kHz
Voltage Proof	U _R ×150% 60s
Insulation Resistance	C≤0.33μF: 25000MΩmin C>0.33μF: 7500ΩFmin
Reference Standard	JIS C 5101-16, JIS C 5101-1

◆DIMENSIONS

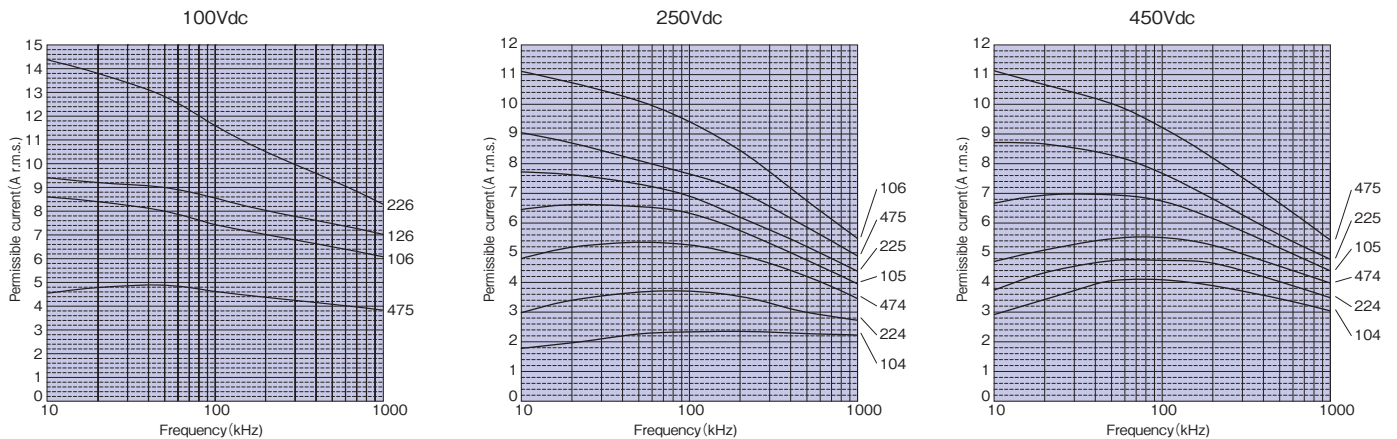
(mm)



◆PART NUMBER



◆PERMISSIBLE CURRENT FOR FREQUENCY

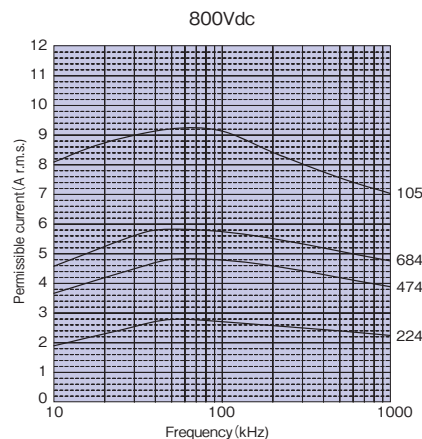
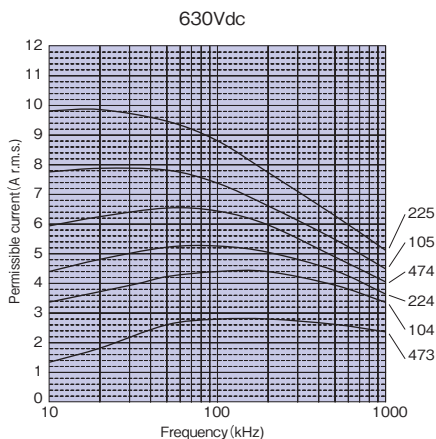


◆ STANDARD SIZE

□ : Capacitance Tolerance

** : Lead Forming

Rated Voltage	Cap(μF)	Dimensions (mm)						Typical Packaging Quantity (pcs)								Part No.
								Long Lead type		Taping Ammo Pack Type - Style						
		A	B	C	F±1.0	LS±0.5	d	Bag	Carton	TC	TX, TH	TL, TJ	TN	TS		
100 Vdc	4.7	18.5	13.5	24.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	100MPH475□**	
	5.6	18.5	14.5	25.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	100MPH565□**	
	6.8	18.5	16.0	26.5	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	100MPH685□**	
	8.2	18.5	18.0	28.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	100MPH825□**	
	10	18.5	20.0	30.0	15.0	7.5/10.0/15.0	1.0	100	400	—	—	—	—	—	100MPH106□**	
	12	26.5	17.0	27.5	22.5	15.0/22.5	1.0	100	300	—	—	—	—	—	100MPH126□**	
	15	26.5	19.0	29.5	22.5	15.0/22.5	1.0	100	300	—	—	—	—	—	100MPH156□**	
	18	26.5	21.0	31.5	22.5	15.0/22.5	1.0	50	200	—	—	—	—	—	100MPH186□**	
22	26.5	23.5	34.0	22.5	15.0/22.5	1.0	50	200	—	—	—	—	—	100MPH226□**		
250 Vdc	0.1	10.5	7.0	13.5	7.5	5.0/7.5	0.6	100	3,000	—	—	—	—	—	250MPH104□**	
	0.12	10.5	8.0	14.0	7.5	5.0/7.5	0.6	100	2,000	—	—	—	—	—	250MPH124□**	
	0.15	10.5	8.5	15.0	7.5	5.0/7.5	0.6	100	2,000	—	—	—	—	—	250MPH154□**	
	0.18	10.5	9.0	15.5	7.5	5.0/7.5	0.6	100	2,000	—	—	—	—	—	250MPH184□**	
	0.22	10.5	8.5	14.5	7.5	5.0/7.5	0.6	100	2,000	—	—	—	—	—	250MPH224□**	
	0.27	10.5	8.5	16.5	7.5	5.0/7.5	0.6	100	2,000	—	—	—	—	—	250MPH274□**	
	0.33	10.5	9.0	17.0	7.5	5.0/7.5	0.6	100	1,000	—	—	—	—	—	250MPH334□**	
	0.39	13.0	8.0	16.0	10.0	5.0/7.5/10.0	0.6	100	2,000	—	—	—	—	—	250MPH394□**	
	0.47	13.0	9.0	17.0	10.0	5.0/7.5/10.0	0.8	100	1,000	—	—	—	—	—	250MPH474□**	
	0.56	13.0	10.0	18.0	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	250MPH564□**	
	0.68	13.0	11.0	19.0	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	250MPH684□**	
	0.82	13.0	12.0	20.0	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	250MPH824□**	
	1	13.0	13.0	21.0	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	250MPH105□**	
	1.2	13.0	14.5	22.0	10.0	5.0/7.5/10.0	0.8	200	800	—	—	—	—	—	250MPH125□**	
	1.5	13.0	15.0	24.0	10.0	5.0/7.5/10.0	0.8	200	800	—	—	—	—	—	250MPH155□**	
	1.8	18.5	13.0	20.5	15.0	7.5/10.0/15.0	0.8	200	800	—	—	—	—	—	250MPH185□**	
	2.2	18.5	14.0	21.5	15.0	7.5/10.0/15.0	0.8	100	500	—	—	—	—	—	250MPH225□**	
	2.7	18.5	16.0	23.5	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	250MPH275□**	
	3.3	18.5	17.0	26.5	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	250MPH335□**	
	3.9	18.5	18.5	28.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	250MPH395□**	
4.7	18.5	20.5	29.5	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	250MPH475□**		
5.6	23.5	18.5	28.0	20.0	20.0	1.0	100	400	—	—	—	—	—	250MPH565□**		
6.8	23.5	19.5	30.0	20.0	20.0	1.0	100	300	—	—	—	—	—	250MPH685□**		
8.2	23.5	22.0	32.5	20.0	20.0	1.0	100	300	—	—	—	—	—	250MPH825□**		
10	23.5	24.5	33.5	20.0	20.0	1.0	100	300	—	—	—	—	—	250MPH106□**		



◆ STANDARD SIZE

□ : Capacitance Tolerance

** : Lead Forming

Rated Voltage	Cap(μF)	Dimensions (mm)						Typical Packaging Quantity (pcs)								Part No.
								Long Lead type		Taping Ammo Pack Type - Style						
		A	B	C	F±1.0	LS±0.5	d	Bag	Carton	TC	TX, TH	TL, TJ	TN	TS		
450 Vdc	0.1	10.5	8.5	14.5	7.5	5.0/7.5	0.8	100	2,000	—	—	—	—	—	450MPH104□**	
	0.12	10.5	9.5	15.5	7.5	5.0/7.5	0.8	100	2,000	—	—	—	—	—	450MPH124□**	
	0.15	13.0	8.5	14.5	10.0	5.0/7.5/10.0	0.8	100	2,000	—	—	—	—	—	450MPH154□**	
	0.18	13.0	9.0	15.0	10.0	5.0/7.5/10.0	0.8	100	2,000	—	—	—	—	—	450MPH184□**	
	0.22	13.0	9.5	16.0	10.0	5.0/7.5/10.0	0.8	100	1,000	—	—	—	—	—	450MPH224□**	
	0.27	13.0	10.5	18.0	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	450MPH274□**	
	0.33	13.0	11.5	19.0	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	450MPH334□**	
	0.39	13.0	12.5	19.5	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	450MPH394□**	
	0.47	13.0	13.5	21.0	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	450MPH474□**	
	0.56	18.5	11.0	18.5	15.0	7.5/10.0/15.0	0.8	200	1,000	—	—	—	—	—	450MPH564□**	
	0.68	18.5	12.5	19.5	15.0	7.5/10.0/15.0	0.8	200	800	—	—	—	—	—	450MPH684□**	
	0.82	18.5	13.5	20.5	15.0	7.5/10.0/15.0	0.8	200	800	—	—	—	—	—	450MPH824□**	
	1	18.5	15.0	22.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	450MPH105□**	
	1.2	18.5	15.5	24.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	450MPH125□**	
	1.5	18.5	17.5	26.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	450MPH155□**	
	1.8	18.5	19.0	27.5	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	450MPH185□**	
2.2	18.5	21.0	30.5	15.0	7.5/10.0/15.0	1.0	100	400	—	—	—	—	—	450MPH225□**		
2.7	23.5	19.0	29.0	20.0	20.0	1.0	100	400	—	—	—	—	—	450MPH275□**		
3.3	23.5	21.0	32.0	20.0	20.0	1.0	100	300	—	—	—	—	—	450MPH335□**		
3.9	23.5	23.0	34.0	20.0	20.0	1.0	100	300	—	—	—	—	—	450MPH395□**		
4.7	23.5	25.0	36.0	20.0	20.0	1.0	50	200	—	—	—	—	—	450MPH475□**		
630 Vdc	0.047	13.0	8.5	14.0	10.0	5.0/7.5/10.0	0.8	100	2,000	—	—	—	—	—	630MPH473□**	
	0.056	13.0	9.0	15.0	10.0	5.0/7.5/10.0	0.8	100	2,000	—	—	—	—	—	630MPH563□**	
	0.068	13.0	10.0	15.5	10.0	5.0/7.5/10.0	0.8	100	1,000	—	—	—	—	—	630MPH683□**	
	0.082	13.0	10.5	16.5	10.0	5.0/7.5/10.0	0.8	100	1,000	—	—	—	—	—	630MPH823□**	
	0.1	13.0	11.0	17.0	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	630MPH104□**	
	0.12	13.0	12.0	17.5	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	630MPH124□**	
	0.15	13.0	13.0	19.0	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	630MPH154□**	
	0.18	13.0	14.5	20.0	10.0	5.0/7.5/10.0	0.8	200	1,000	—	—	—	—	—	630MPH184□**	
	0.22	13.0	15.5	21.0	10.0	5.0/7.5/10.0	0.8	200	800	—	—	—	—	—	630MPH224□**	
	0.27	18.5	12.0	19.5	15.0	7.5/10.0/15.0	0.8	200	800	—	—	—	—	—	630MPH274□**	
	0.33	18.5	13.5	20.5	15.0	7.5/10.0/15.0	0.8	200	800	—	—	—	—	—	630MPH334□**	
	0.39	18.5	14.5	22.0	15.0	7.5/10.0/15.0	0.8	100	500	—	—	—	—	—	630MPH394□**	
	0.47	18.5	16.0	23.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	630MPH474□**	
	0.56	18.5	17.0	24.5	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	630MPH564□**	
	0.68	18.5	18.0	27.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	630MPH684□**	
	0.82	18.5	20.0	29.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	630MPH824□**	
1	18.5	21.5	32.0	15.0	7.5/10.0/15.0	1.0	100	400	—	—	—	—	—	630MPH105□**		
1.2	23.5	19.5	30.0	20.0	20.0	1.0	100	400	—	—	—	—	—	630MPH125□**		
1.5	23.5	22.0	33.0	20.0	20.0	1.0	100	300	—	—	—	—	—	630MPH155□**		
1.8	23.5	24.0	34.0	20.0	20.0	1.0	50	200	—	—	—	—	—	630MPH185□**		
2.2	23.5	26.5	37.0	20.0	20.0	1.0	50	200	—	—	—	—	—	630MPH225□**		
800 Vdc	0.22	18.5	15.5	23.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	800MPH224□**	
	0.27	18.5	17.0	24.5	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	800MPH274□**	
	0.33	18.5	19.0	26.5	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	800MPH334□**	
	0.39	18.5	20.5	28.0	15.0	7.5/10.0/15.0	1.0	100	500	—	—	—	—	—	800MPH394□**	
	0.47	18.5	21.5	30.5	15.0	7.5/10.0/15.0	1.0	100	400	—	—	—	—	—	800MPH474□**	
	0.56	18.5	23.5	32.5	15.0	7.5/10.0/15.0	1.0	100	300	—	—	—	—	—	800MPH564□**	
	0.68	26.5	19.5	28.5	22.5	15.0/22.5	1.0	50	200	—	—	—	—	—	800MPH684□**	
	0.82	26.5	22.0	31.0	22.5	15.0/22.5	1.0	50	200	—	—	—	—	—	800MPH824□**	
1	26.5	24.5	33.0	22.5	15.0/22.5	1.0	50	200	—	—	—	—	—	800MPH105□**		