

# METALLIZED POLYESTER FILM CAPACITOR

 Type **MMH**

## Features

- High reliability
- Highly reliable because of its self-healing performance.
- Uniform flame-retardant epoxy resin coating from the latest resin technology. This provides miniature size and light weight.
- Available in series from low voltage to high voltage.

## Specifications

Temp range	-40 to +85°C (+105°C)*	Insulation resistance	C≤0.33μF 15,000MΩ or more C>0.33μF 5,000ΩF or more
Voltage	100V, 250V, 400V, 630V, 1000V, 1250V.d.c		Endurance
Capacitance	100V 0.0033 to 4.7μF (E-12) 1000V 0.0010 to 0.22μF(E-12) 250V 0.0010 to 3.3μF (E-12) 1250V 0.0010 to 0.1μF (E-12) 400V 0.0010 to 1.5μF (E-12) 630V 0.0010 to 0.68μF(E-12)	Damp heat	
Cap. tolerance	±5%(J), ±10%(K), ±20%(M)		Tangent of loss angle

\* ( ) Marked temperature shows an operational range when a voltage is derated.

Style	Straight lead type		Single formed lead type	
Cap range	100V.d.c	333 to 475	335 to 475	564 to 224
	250V.d.c	473 to 335	473 to 335	823 to 684
	400V.d.c	223 to 155	223 to 155	223 to 394
	630V.d.c	102 to 684	102 to 684	102 to 124
	1000V.d.c	102 to 224	—	102 to 224
	1250V.d.c	102 to 104	—	102 to 104

For F-dimension of double formed leads, please contact Nissei.

For a pitch space(F) of the taping specification, refer to "TAPING DIMENSIONS"

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## Dimensions(mm)

Capacitors Code	Cap(μF)	MMH 100V.dc						MMH 250V.dc						MMH 400V.dc						
		W	H	T	P	F	φd	W	H	T	P	F	φd	W	H	T	P	F	φd	
223	0.022																			
273	0.027																			
333	0.033	9.5	5.5	3.5	7.5	5.0/7.5	0.5													
393	0.039	9.5	5.5	3.5	7.5	5.0/7.5	0.5													
473	0.047	9.5	5.5	3.5	7.5	5.0/7.5	0.5	10.0	7.5	4.5	7.5	5.0/7.5	0.6	13.0	10.0	5.0	10.0	5.0/7.5/10.0	0.6	
563	0.056	9.5	5.5	3.5	7.5	5.0/7.5	0.5	10.0	8.0	5.0	7.5	5.0/7.5	0.6	13.0	10.5	5.0	10.0	5.0/7.5/10.0	0.6	
683	0.068	9.5	5.5	3.5	7.5	5.0/7.5	0.5	10.0	8.5	5.0	7.5	5.0/7.5	0.6	13.0	10.0	6.5	10.0	5.0/7.5/10.0	0.6	
823	0.082	9.5	5.5	3.5	7.5	5.0/7.5	0.5	13.0	8.5	4.5	10.0	5.0/7.5/10.0	0.6	13.0	10.5	7.0	10.0	5.0/7.5/10.0	0.6	
104	0.10	10.0	7.0	3.8	7.5	5.0/7.5	0.5	13.0	9.5	4.5	10.0	5.0/7.5/10.0	0.6	18.0	10.5	5.0	15.0	5.0/7.5/15.0	0.6	
124	0.12	10.0	7.5	3.8	7.5	5.0/7.5	0.5	13.0	10.0	5.0	10.0	5.0/7.5/10.0	0.6	18.0	11.0	5.5	15.0	5.0/7.5/15.0	0.6	
154	0.15	10.0	8.0	4.0	7.5	5.0/7.5	0.5	13.0	10.5	5.0	10.0	5.0/7.5/10.0	0.6	18.0	12.0	6.5	15.0	5.0/7.5/15.0	0.6	
184	0.18	10.0	8.0	4.3	7.5	5.0/7.5	0.5	13.0	11.0	5.5	10.0	5.0/7.5/10.0	0.6	18.0	12.5	7.0	15.0	5.0/7.5/15.0	0.6	
224	0.22	10.0	8.0	4.5	7.5	5.0/7.5	0.5	13.0	11.5	6.0	10.0	5.0/7.5/10.0	0.6	18.0	15.0	6.5	15.0	5.0/7.5/15.0	0.6	
274	0.27	10.0	9.8	4.5	7.5	5.0/7.5	0.5	18.0	10.5	5.0	15.0	5.0/7.5/15.0	0.6	18.0	15.0	8.0	15.0	5.0/7.5/15.0	0.8	
334	0.33	10.0	11.0	4.5	7.5	5.0/7.5	0.5	18.0	12.0	5.0	15.0	5.0/7.5/15.0	0.6	18.0	15.5	8.5	15.0	5.0/7.5/15.0	0.8	
394	0.39	10.0	11.5	5.0	7.5	5.0/7.5	0.5	18.0	12.5	5.5	15.0	5.0/7.5/15.0	0.6	18.0	16.5	9.0	15.0	5.0/7.5/15.0	0.8	
474	0.47	10.0	12.0	5.3	7.5	5.0/7.5	0.5	18.0	13.0	6.0	15.0	5.0/7.5/15.0	0.6	25.0	17.5	7.0	22.5	22.5	0.8	
564	0.56	12.5	10.5	5.3	10.0	5.0/7.5/10.0	0.6	18.0	15.0	6.0	15.0	5.0/7.5/15.0	0.6	25.0	18.0	7.5	22.5	22.5	0.8	
684	0.68	12.5	10.5	6.4	10.0	5.0/7.5/10.0	0.6	18.0	15.5	7.0	15.0	5.0/7.5/15.0	0.8	25.0	19.0	8.5	22.5	22.5	0.8	
824	0.82	12.5	13.5	5.7	10.0	5.0/7.5/10.0	0.6	25.0	15.0	6.0	22.5	22.5	0.8	25.0	19.5	9.5	22.5	22.5	0.8	
105	1.0	12.5	14.0	6.0	10.0	5.0/7.5/10.0	0.6	25.0	15.5	6.5	22.5	22.5	0.8	25.0	20.5	10.5	22.5	22.5	0.8	
125	1.2	18.0	12.0	5.5	15.0	5.0/7.5/15.0	0.8	25.0	16.0	7.3	22.5	22.5	0.8	25.0	21.5	11.5	22.5	22.5	0.8	
155	1.5	18.0	13.0	6.0	15.0	5.0/7.5/15.0	0.8	25.0	17.0	8.0	22.5	22.5	0.8	30.0	21.5	11.5	27.5	27.5	0.8	
185	1.8	18.0	13.5	6.5	15.0	5.0/7.5/15.0	0.8	25.0	17.5	9.0	22.5	22.5	0.8							
225	2.2	18.0	14.0	7.3	15.0	5.0/7.5/15.0	0.8	30.0	17.5	8.5	27.5	27.5	0.8							
275	2.7	25.0	13.5	6.5	22.5	22.5	0.8	30.0	18.5	10.0	27.5	27.5	0.8							
335	3.3	25.0	15.0	7.0	22.5	22.5	0.8	30.0	19.5	11.0	27.5	27.5	0.8							
395	3.9	25.0	16.0	7.5	22.5	22.5	0.8													
475	4.7	25.0	17.0	8.0	22.5	22.5	0.8													

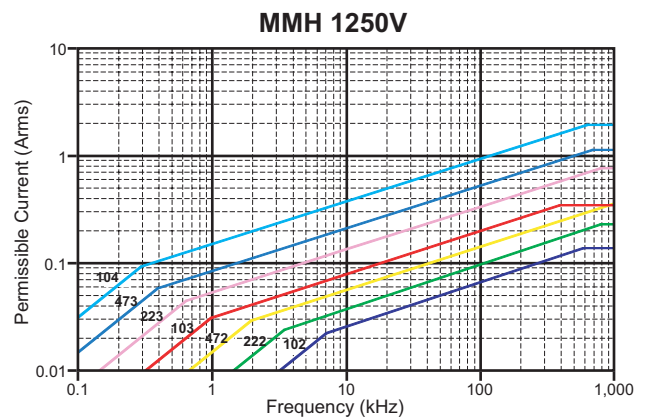
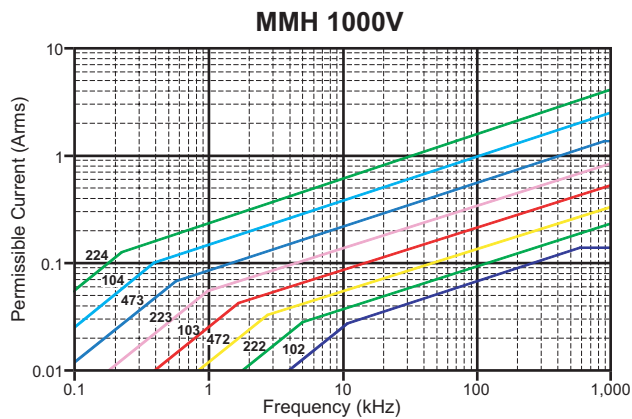
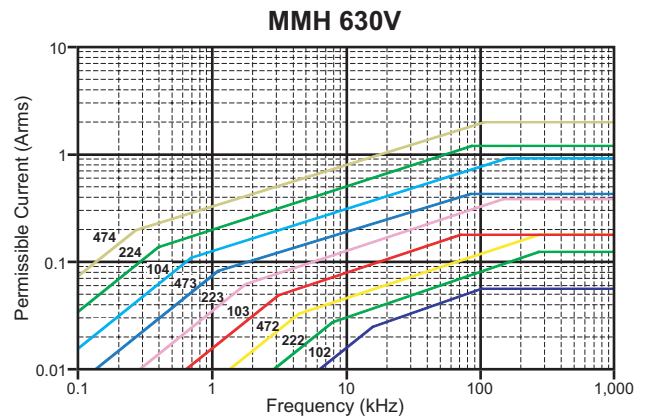
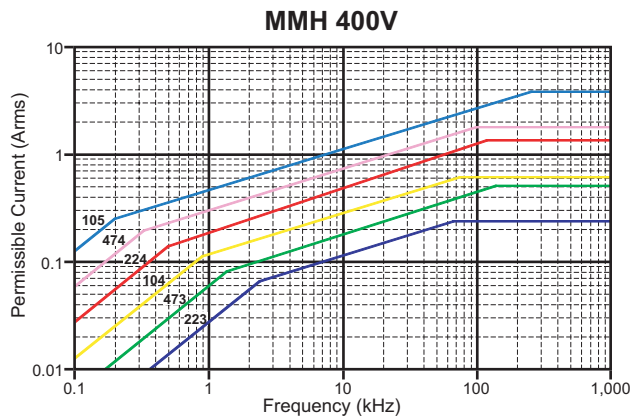
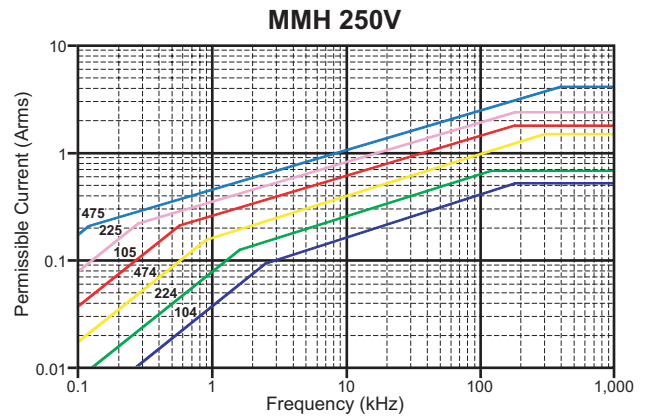
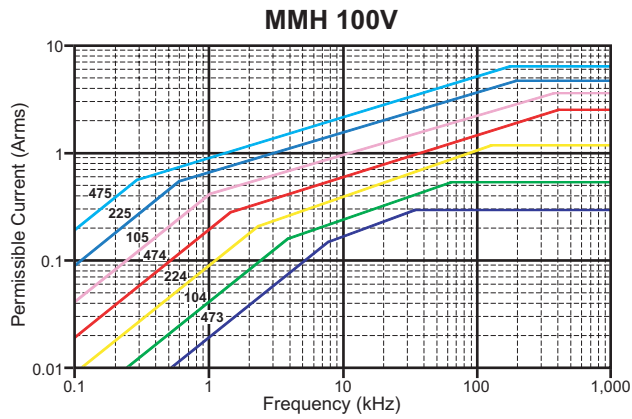
Capacitors Code	Cap(μF)	MMH 630V.dc						MMH 1000V.dc						MMH 1250V.dc						
		W	H	T	P	F	φd	W	H	T	P	F	φd	W	H	T	P	F	φd	
102	0.0010	12.5	7.5	4.5	10.0	5.0/7.5/10.0	0.6	19.0	10.5	5.5	15.0	10.0	0.6	19.0	10.5	5.5	15.5	10.0	0.6	
122	0.0012	12.5	7.5	4.5	10.0	5.0/7.5/10.0	0.6	19.0	10.5	5.5	15.0	10.0	0.6	19.0	10.5	5.5	15.5	10.0	0.6	
152	0.0015	12.5	7.5	4.5	10.0	5.0/7.5/10.0	0.6	19.0	10.5	5.5	15.0	10.0	0.6	19.0	10.5	5.5	15.5	10.0	0.6	
182	0.0018	12.5	7.5	4.5	10.0	5.0/7.5/10.0	0.6	19.0	10.5	5.5	15.0	10.0	0.6	19.0	10.5	5.5	15.5	10.0	0.6	
222	0.0022	12.5	7.5	4.5	10.0	5.0/7.5/10.0	0.6	19.0	11.0	5.5	15.0	10.0	0.6	19.0	11.0	5.5	15.5	10.0	0.6	
272	0.0027	12.5	7.5	4.5	10.0	5.0/7.5/10.0	0.6	19.0	11.0	6.0	15.0	10.0	0.6	19.0	11.0	6.0	15.5	10.0	0.6	
332	0.0033	12.5	7.5	4.5	10.0	5.0/7.5/10.0	0.6	19.0	11.0	6.0	15.0	10.0	0.6	19.0	11.0	6.0	15.5	10.0	0.6	
392	0.0039	12.5	7.5	4.5	10.0	5.0/7.5/10.0	0.6	19.0	11.5	6.5	15.0	10.0	0.6	19.0	11.5	6.5	15.5	10.0	0.6	
472	0.0047	12.5	10.0	5.0	10.0	5.0/7.5/10.0	0.6	19.0	12.0	6.5	15.0	10.0	0.6	19.0	12.0	6.5	15.5	10.0	0.6	
562	0.0056	12.5	10.0	5.0	10.0	5.0/7.5/10.0	0.6	19.0	13.0	7.0	15.0	10.0	0.6	19.0	13.0	7.0	15.5	10.0	0.6	
682	0.0068	12.5	10.0	5.0	10.0	5.0/7.5/10.0	0.6	19.0	13.5	7.5	15.0	10.0	0.6	19.0	13.5	7.5	15.5	10.0	0.6	
822	0.0082	12.5	10.0	5.0	10.0	5.0/7.5/10.0	0.6	19.0	13.5	7.5	15.0	12.5	0.6	26.0	12.0	6.0	21.5	12.5	0.6	
103	0.010	13.0	7.5	4.0	10.0	5.0/7.5/10.0	0.6	19.0	13.0	7.0	15.0	12.5	0.6	26.0	12.5	6.5	21.5	12.5	0.6	
123	0.012	13.0	8.0	4.5	10.0	5.0/7.5/10.0	0.6	19.0	13.0	7.5	15.0	12.5	0.6	26.0	12.5	6.5	21.5	12.5	0.6	
153	0.015	13.0	9.5	4.0	10.0	5.0/7.5/10.0	0.6	19.0	14.0	8.0	15.0	12.5	0.6	26.0	14.0	6.5	21.5	12.5	0.6	
183	0.018	13.0	10.0	4.5	10.0	5.0/7.5/10.0	0.6	19.0	15.0	8.0	15.0	12.5	0.6	26.0	14.5	7.0	21.5	12.5	0.6	
223	0.022	13.0	10.5	5.0	10.0	5.0/7.5/10.0	0.6	19.0	16.0	8.5	15.0	12.5	0.6	26.0	15.0	8.0	21.5	12.5	0.6	
273	0.027	13.0	10.5	5.5	10.0	5.0/7.5/10.0	0.6	26.0	15.0	7.0	21.5	12.5	0.8	31.0	15.5	8.0	26.5	17.5	0.8	
333	0.033	13.0	11.0	5.5	10.0	5.0/7.5/10.0	0.6	26.0	15.5	7.5	21.5	12.5	0.8	31.0	16.0	8.5	26.5	17.5	0.8	
393	0.039	13.0	10.5	7.0	10.0	5.0/7.5/10.0	0.6	26.0	17.0	7.5	21.5	12.5	0.8	31.0	17.0	8.5	26.5	17.5	0.8	
473	0.047	18.0	10.5	5.0	15.0	5.0/7.5/15.0	0.6	26.0	17.5	8.5	21.5	12.5	0.8	31.0	18.0	9.0	26.5	17.5	0.8	
563	0.056	18.0	11.0	5.5	15.0	5.0/7.5/15.0	0.6	26.0	18.0	9.0	21.5	12.5	0.8	34.0	18.0	9.0	30.5	22.5	0.8	
683	0.068	18.0	11.0	6.0	15.0	5.0/7.5/15.0	0.6	26.0	19.0	10.0	21.5	12.5	0.8	34.0	20.0	9.5	30.5	22.5	0.8	
823	0.082	18.0	13.5	6.0	15.0	5.0/7.5/15.0	0.6	26.0	20.0	10.0	21.5	12.5	0.8	34.0	20.5	10.0	30.5	22.5	0.8	
104	0.10	18.0	14.0	6.5	15.0	5.0/7.5/15.0	0.6	26.0	22.0	10.5	21.5	12.5	0.8	34.0	22.0	10.5	30.5	22.5	0.8	
124	0.12	18.0	15.5	6.5	15.0	5.0/7.5/15.0	0.6	31.0	20.5	10.5	26.5	17.5	0.8							
154	0.15	25.0	13.5	6.0	22.5	22.5	0.8	31.0	22.0	11.5	26.5	17.5	0.8							
184	0.18	25.0	14.0	6.5	22.5	22.5	0.8	31.0	23.0	12.5	26.5	17.5	0.8							
224	0.22	25.0	16.0	7.0	22.5	22.5	0.8	31.0	24.0	13.5	26.5	17.5	0.8							
274	0.27	25.0	17.0	8.0	22.5	22.5	0.8													
334	0.33	25.0	17.5	8.5	22.5	22.5	0.8													
394	0.39	25.0	18.5	9.5	22.5	22.5	0.8													
474	0.47	30.0	19.0	8.5	27.5	27.5	0.8													
564	0.56	30.0	20.0	9.5	27.5	27.5	0.8													
684	0.68	30.0	21.0	10.5	27.5	27.5	0.8													

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Standard quantity packed in a box

# METALLIZED POLYESTER FILM CAPACITOR Type **MMH**

## Characteristics of permissible current to frequency



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Standard quantity packed in a box