



TMCF1801 Metallized polypropylene film interference suppression Capacitors

■ Features

- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Widely used in across-the-line, interference suppression circuit, etc.



Specifications

Class	X2		
Climatic Category/Passive Flammability Category	40/110/56/B		
Operating Temperature Range	-40°C ~ +110°C		
Rated Voltage	275/305Vac (ENEC/CQC), 250Vac(UL1414), 310Vac(UL1283)		
Maximum continuous DC voltage	630 Vdc		
Capacitance Range	0.0010μF~10.0μF		
Capacitance Tolerance	± 10%(K), ± 20%(M)		
Voltage Proof	Between Terminals:	2 000Vdc(2s) C _R < 1.0μF	
		1 800Vdc(2s) C _R > 1.0μF	
	Between Terminals To Case:	2 110Vac(1min)	
Insulation Resistance	> 15 000MΩ, C _R < 0.33μF > 5 000s, C _R > 0.33μF (20°C, 100V, 1min)		
Dissipation Factor	0.0010μF < C _R < 0.47μF	< 10 x 10 ⁻⁴ (1kHz, 20°C)	< 20 x 10 ⁻⁴ (10kHz, 20°C)
	0.47μF < C _R < 1.0μF	< 20 x 10 ⁻⁴ (1kHz, 20°C)	< 40 x 10 ⁻⁴ (10kHz, 20°C)
	1.0μF < C _R < 10μF	< 30 x 10 ⁻⁴ (1kHz, 20°C)	-----

■ Dimensions(mm)

100Vdc(60Vac)/160Vdc(90Vac)#				250Vdc(160Vac)				400Vdc(200Vac)			
C _R (μF)	D max	L max	d	C _R (μF)	D max	L max	d	C _R (μF)	D max	L max	d
0.022	5.0	12.0	0.6	0.010	5.0	12.0	0.6	0.0068	5.0	12.0	0.6
0.027	5.0	12.0	0.6	0.012	5.0	12.0	0.6	0.0082	5.0	12.0	0.6
0.033	5.0	12.0	0.6	0.015	5.0	12.0	0.6	0.010	5.0	12.0	0.6
0.039	5.0	12.0	0.6	0.018	5.0	12.0	0.6	0.012	5.0	12.0	0.6
0.047	5.0	12.0	0.6	0.022	5.0	12.0	0.6	0.015	5.0	12.0	0.6
0.056	5.0	12.0	0.6	0.027	5.0	12.0	0.6	0.018	5.5	12.0	0.6
0.068	5.5	12.0	0.6	0.033	5.5	12.0	0.6	0.022	5.5	12.0	0.6
0.082	5.0	14.5	0.6	0.039	5.0	14.5	0.6	0.027	5.0	14.5	0.6
0.10	5.5	14.5	0.6	0.047	5.5	14.5	0.6	0.033	5.5	14.5	0.6
0.12	6.0	14.5	0.6	0.056	5.5	14.5	0.6	0.039	6.0	14.5	0.6
0.15	6.5	14.5	0.6	0.068	6.0	14.5	0.6	0.047	6.5	14.5	0.6
0.18	7.0	14.5	0.8	0.082	6.5	14.5	0.6	0.056	6.5	14.5	0.6
0.22	7.5	14.5	0.8	0.10	7.0	14.5	0.8	0.068	7.0	14.5	0.8
0.27	8.5	14.5	0.8	0.12	7.5	14.5	0.8	0.082	7.5	14.5	0.8
0.33	7.0	20.0	0.8	0.15	8.0	14.5	0.8	0.10	7.0	20.0	0.8
0.39	7.5	20.0	0.8	0.18	8.5	14.5	0.8	0.12	7.5	20.0	0.8
0.47	8.0	20.0	0.8	0.22	7.5	20.0	0.8	0.15	8.0	20.0	0.8
0.56	9.0	20.0	0.8	0.27	8.0	20.0	0.8	0.18	8.5	20.0	0.8
0.68	8.0	27.5	0.8	0.33	9.0	20.0	0.8	0.22	9.0	20.0	0.8



■ Continued

100Vdc(60Vac)/160Vdc(90Vac) [#]			
0.82	8.5	27.5	0.8
1.0	9.5	27.5	0.8
1.2	10.0	27.5	0.8
1.5	11.5	27.5	0.8
1.8	12.0	27.5	0.8
2.2	12.0	33.0	0.8
2.7	13.0	33.0	0.8
3.3	14.0	33.0	0.8
3.9	15.0	33.0	0.8
4.7	16.5	33.0	1.0
5.6	17.5	33.0	1.0
6.8	17.5	41.5	1.0
8.2	19.0	41.5	1.0
10.0	20.5	41.5	1.0
12.0	19.0	56.5	1.0
15.0	21.0	56.5	1.0

250Vdc(160Vac)			
0.39	9.5	20.0	0.8
0.47	8.5	27.5	0.8
0.56	9.0	27.5	0.8
0.68	10.0	27.5	0.8
0.82	10.5	27.5	0.8
1.0	12.0	27.5	0.8
1.2	12.5	27.5	0.8
1.5	12.5	33.0	0.8
1.8	13.5	33.0	0.8
2.2	14.5	33.0	0.8
2.7	16.0	33.0	1.0
3.3	17.5	33.0	1.0
3.9	18.5	33.0	1.0
4.7	18.0	41.5	1.0
5.6	19.5	41.5	1.0
6.8	21.5	41.5	1.0
8.2	23.0	41.5	1.0
10.0	21.5	56.5	1.0
12.0	23.5	56.5	1.0
15.0	25.5	56.5	1.0

400Vdc(200Vac)			
0.27	10.0	20.0	0.8
0.33	9.0	27.5	0.8
0.39	9.5	27.5	0.8
0.47	10.0	27.5	0.8
0.56	10.5	27.5	0.8
0.68	12.0	27.5	0.8
0.82	13.0	27.5	0.8
1.0	12.5	33.0	0.8
1.2	13.5	33.0	0.8
1.5	15.0	33.0	0.8
1.8	16.0	33.0	1.0
2.2	17.5	33.0	1.0
2.7	19.0	33.0	1.0
3.3	18.5	41.5	1.0
3.9	20.0	41.5	1.0
4.7	21.5	41.5	1.0
5.6	23.5	41.5	1.0
6.8	21.5	56.5	1.0
8.2	23.5	56.5	1.0
10.0	25.5	56.5	1.0

630Vdc(220Vac) [@]			
C _R (μF)	D max	L max	d
0.0010	5.0	12.0	0.6
0.0012	5.0	12.0	0.6
0.0015	5.0	12.0	0.6
0.0018	5.0	12.0	0.6
0.0022	5.0	12.0	0.6
0.0027	5.0	12.0	0.6
0.0033	5.0	12.0	0.6
0.0039	5.0	12.0	0.6
0.0047	5.0	12.0	0.6
0.0056	5.0	12.0	0.6
0.0068	5.5	12.0	0.6
0.0082	5.0	14.5	0.6
0.010	5.5	14.5	0.6
0.012	5.5	14.5	0.6
0.015	6.0	14.5	0.6
0.018	6.5	14.5	0.6
0.022	7.0	14.5	0.8
0.027	7.5	14.5	0.8
0.033	7.0	20.0	0.8
0.039	7.5	20.0	0.8
0.047	8.0	20.0	0.8
0.056	8.5	20.0	0.8
0.068	9.0	20.0	0.8
0.082	9.5	20.0	0.8

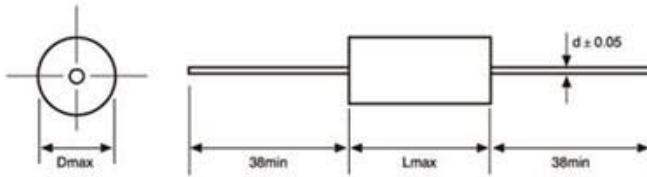
1 000Vdc(350Vac)			
C _R (μF)	D max	L max	d
0.0010	5.0	12.0	0.6
0.0012	5.0	12.0	0.6
0.0015	5.0	12.0	0.6
0.0018	5.5	12.0	0.6
0.0022	6.0	12.0	0.6
0.0027	6.0	12.0	0.6
0.0033	6.5	12.0	0.6
0.0039	5.5	14.5	0.6
0.0047	5.5	14.5	0.6
0.0056	6.5	14.5	0.6
0.0068	6.5	14.5	0.6
0.0082	7.0	14.5	0.8
0.010	7.5	14.5	0.8
0.012	8.0	14.5	0.8
0.015	8.5	14.5	0.8
0.018	7.5	20.0	0.8
0.022	8.0	20.0	0.8
0.027	8.5	20.0	0.8
0.033	9.0	20.0	0.8
0.039	10.0	20.0	0.8
0.047	10.5	20.0	0.8
0.056	9.0	27.5	0.8
0.068	9.5	27.5	0.8
0.082	10.5	27.5	0.8

1 250Vdc(400Vac)			
C _R (μF)	D max	L max	d
0.0010	5.0	12.0	0.6
0.0012	5.5	12.0	0.6
0.0015	5.5	12.0	0.6
0.0018	6.0	12.0	0.6
0.0022	6.5	12.0	0.6
0.0027	5.5	14.5	0.6
0.0033	6.0	14.5	0.6
0.0039	6.0	14.5	0.6
0.0047	6.5	14.5	0.6
0.0056	7.0	14.5	0.8
0.0068	7.5	14.5	0.8
0.0082	8.0	14.5	0.8
0.010	8.5	14.5	0.8
0.012	7.0	20.0	0.8
0.015	7.5	20.0	0.8
0.018	8.0	20.0	0.8
0.022	8.5	20.0	0.8
0.027	9.5	20.0	0.8
0.033	10.5	20.0	0.8
0.039	9.0	27.5	0.8
0.047	9.5	27.5	0.8
0.056	10.0	27.5	0.8
0.068	11.0	27.5	0.8
0.082	12.0	27.5	0.8

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630Vdc(220Vac) [®]				1 000Vdc(350Vac)				1 250Vdc(400Vac)			
0.10	8.5	27.5	0.8	0.10	11.5	27.5	0.8	0.10	13.0	27.5	0.8
0.12	9.0	27.5	0.8	0.12	12.0	27.5	0.8	0.12	12.5	33.0	0.8
0.15	10.0	27.5	0.8	0.15	12.0	33.0	0.8	0.15	13.5	33.0	0.8
0.18	10.5	27.5	0.8	0.18	13.0	33.0	0.8	0.18	14.5	33.0	0.8
0.22	12.0	27.5	0.8	0.22	14.0	33.0	0.8	0.22	16.0	33.0	1.0
0.27	13.0	27.5	0.8	0.27	15.0	33.0	0.8	0.27	17.0	33.0	1.0
0.33	12.5	33.0	0.8	0.33	16.5	33.0	1.0	0.33	17.0	41.5	1.0
0.39	13.5	33.0	0.8	0.39	18.0	33.0	1.0	0.39	18.0	41.5	1.0
0.47	14.5	33.0	0.8	0.47	17.5	41.5	1.0	0.47	19.5	41.5	1.0
0.56	15.5	33.0	0.8	0.56	19.0	41.5	1.0	0.56	21.0	41.5	1.0
0.68	17.0	33.0	1.0	0.68	20.5	41.5	1.0	0.68	20.0	56.5	1.0
0.82	18.0	33.0	1.0	0.82	22.0	41.5	1.0	0.82	21.5	56.5	1.0
1.0	17.5	41.5	1.0	1.0	20.5	56.5	1.0	1.0	23.0	56.5	1.0
1.2	19.0	41.5	1.0	1.2	22.0	56.5	1.0	1.2	25.0	56.5	1.0
1.5	21.0	41.5	1.0	1.5	24.5	56.5	1.0	1.5	27.5	56.5	1.0
1.8	22.5	41.5	1.0								
2.2	24.5	41.5	1.0								
2.7	23.0	56.5	1.0								
3.3	25.0	56.5	1.0								

Outline Drawing



■ Table1 Lead form and packaging code

Digit 12		Digit 13		Digit 14		Digit 15	
Code	explanation	Code	explanation	Code	explanation	Code	explanation
A	ammo-pack	3	F=7.5mm	0	straight	1	each cap. among two consecutive holes P3=12.7mm, H=18.5mm (For pitch=7.5mm)
		4	F=10.0mm			5	P3=25.4mm, H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to pag 17)
		6	F=15.0mm				
C	straight lead "C" in the figure above	Code	explanation			0	Length tolerance $\pm 0.5mm$ Or standard length
		00	standard lead length (18mm~26mm)				
		45	lead length 4.5mm				