

NEW PRODUCT

< TYPE P2 THE SAFETY MECHANISM CAPACITORS >

DESCRIPTION:

If an abnormality occurs with an infinite number of capacitors connected in parallel with the metallized film, some electrodes will function as a fuse to partially disconnect the film from the body, thus maintaining the normal function of the capacitor.

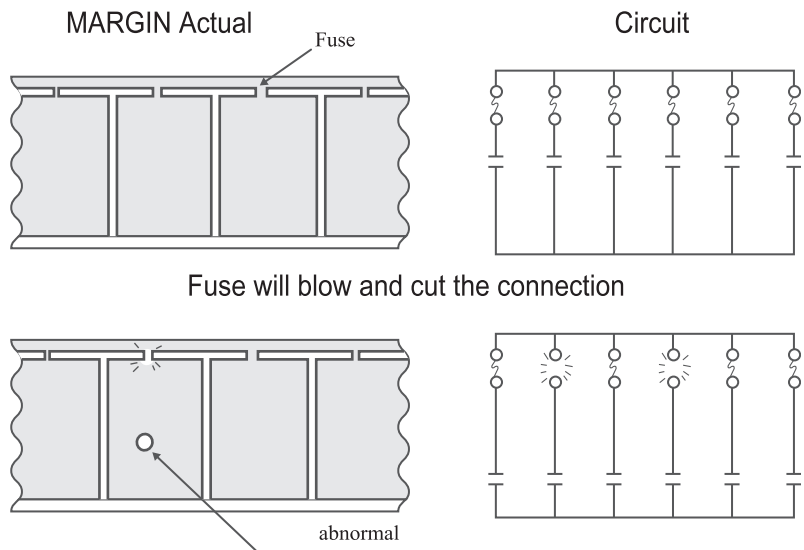
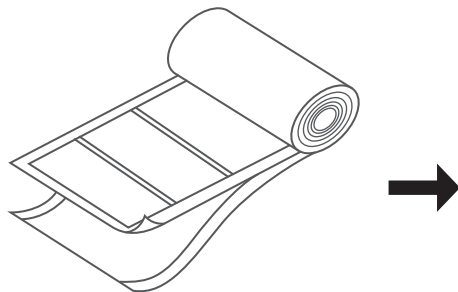
Should a dielectric breakdown occur in a capacitor due to an overvoltage, abnormal heat or natural end of product life, the capacitor may emit smoke or catch fire. To prevent such an occurrence, the TYPE P2 CAPACITOR is equipped with the SAFETY DEVICE which should disconnect it from the circuit. To reach a safety and high quality environments.



UL CUR-recognized File No. E136210(N)



CONSTRUCTURE:



CP Series

SPECIFICATION:

Working Voltage Range (VAC)	220V	250V	330V	400V	450V
Capacitance Range (µF)	0.5~25 µF	0.5~25 µF	0.2~25 µF	0.2~25 µF	0.2~25 µF
Capacitance Tolerance (%)	±5, ±10, ±20 +10 -5 Standard	±5, ±10, ±20 +10 -5 Standard	±5, ±10, ±20 +10 -5 Standard	±5, ±10, ±20 +10 -5 Standard	±5, ±10, ±20 +10 -5 Standard
Temperature Range (°C)	-25~+70°C/85°C Standard	-25~+70°C/85°C Standard	-25~+70°C/85°C Standard	-25~+70°C/85°C Standard	-25~+70°C/85°C Standard

SPECIFICATION

Capacitance Range — 0.1~100 μ F

Tolerance Range — $\pm 5\%$ (Standard), $\pm 5\% \sim \pm 20\%$

Voltage Range — 150~500 VAC (Standard)

Temperature Range — -25~+60°C(Standard), -25~+70°C, -40~+85°C, -25~+100°C



RU or Rup Type



OV or OVP Type



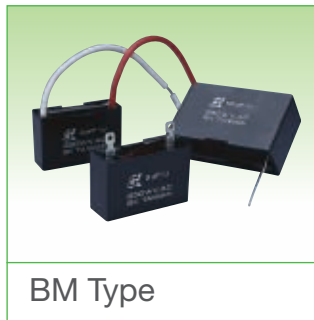
RB Type



RBC or RBCF



BL Type



BM Type



RE Type



RP or RPF Type



BTL Type



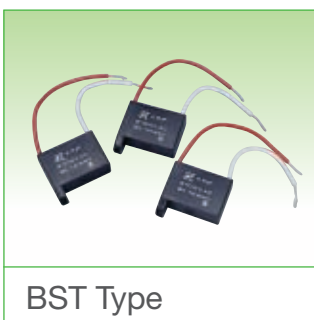
BT Type



BTM Type



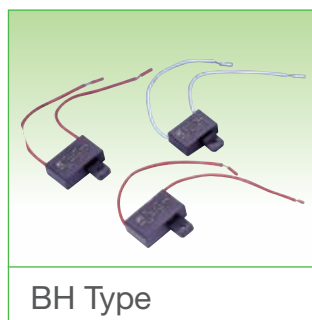
BTU Type



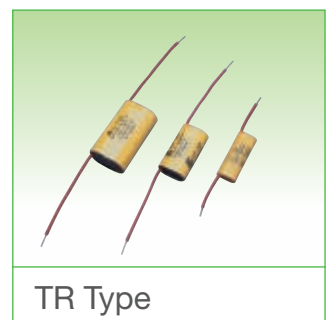
BST Type



BTR Type



BH Type



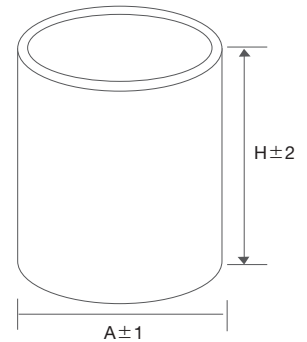
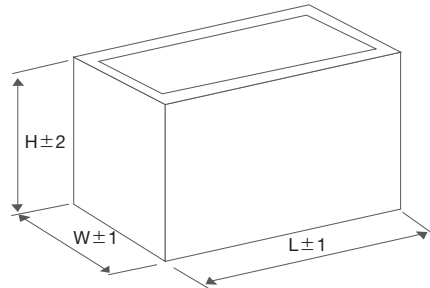
TR Type

• Please contact us for information of other models.

APPROVED BY VDE

Diagram of Dimension(unit=mm)

- VDE Class - GPFNT/GPFPU
 Capacitance Range - 0.5uF~40uF
 Voltage Range - 150 Vac~450 Vac
 Temperature Range - -40~+85°C
 Tolerance(%) - ± 5 , ± 10 , $\pm 10/-0$,
 $+10/-5$ (standard)
 Type Range - Box Types (BM, BT, BL...)
 Cylinder Type (RE, REF...)



VDE Licence No. 116769
 CB Certificate No. DE1-34021 DE1-32461



Case Dimension of Standard 400 and 450 Voltage Products

Catalog Number	Capacitance (uF)	Box Type Case Dimension (mm) L × W × H	Cylinder Case Dimension (mm) A × H
MK504 * * *	0.5	37 × 13 × 22	25 × 40
MK754 * * *	0.8	37 × 13 × 22	25 × 40
MK105 * * *	1.0	37 × 13 × 22.5	25 × 40
MK125 * * *	1.2	37 × 15 × 24	25 × 40
MK155 * * *	1.5	38 × 16 × 25	25 × 40
MK205 * * *	2.0	38 × 19 × 29	30 × 42
MK255 * * *	2.5	38 × 19 × 29	30 × 62
MK305 * * *	3.0	48 × 19 × 29	30 × 62
MK355 * * *	3.5	49 × 21 × 31.5	30 × 62
MK405 * * *	4.0	50 × 22 × 35	35 × 60
MK455 * * *	4.5	59 × 23 × 35	35 × 60
MK505 * * *	5.0	59 × 23 × 35	35 × 60
MK605 * * *	6.0	59 × 23 × 35	35 × 60
MK705 * * *	7.0	50 × 30 × 40	40 × 62
MK805 * * *	8.0	59 × 30 × 40	40 × 62
MK905 * * *	9.0	59 × 30 × 40	40 × 62
MK106 * * *	10.0	59 × 30 × 40	40 × 62
MK126 * * *	12.0	59 × 40 × 40	40 × 62
MK146 * * *	14.0	59 × 40 × 40	45 × 62
MK166 * * *	16.0	59 × 40 × 40	45 × 62
MK186 * * *	18.0	59 × 40 × 40	45 × 62
MK206 * * *	20.0	59 × 40 × 40	45 × 88

• Please contact us for details of sizes

APPROVED BY CUR & UL

CF series is the self-healing flat style capacitor, winding with metallized film, flame retardant plastic case and epoxy resin end seal.

- Voltage range - 100Vac to 450Vac standard
(max. 600Vac)
- Capacitance range - 0.5 μ F to 30 μ F standard
(free capacitance)
- Temperature range - -25°C to +70°C, -25°C to +85°C, Max 105°C
- Tolerance(%) - ± 5 , ± 10 , ± 20 , +10/-5
(standard)
- Type range - standard types
(BM, BT, BL...)

CUR-certified file no. E153459(N)

UL-approved file no. E153459(N)



Catalog		100~250 WV.AC			300 WV.AC			350 WV.AC			400 WV.AC			450 WV.AC		
Number	μ F	Lx W x H			Lx W x H			Lx W x H			Lx W x H			Lx W x H		
CF504*****	0.5	32	11	20	32	11	20	32	11	20	32	11	20	32	11	20
CF754*****	0.75	32	11	20	32	11	20	32	11	20	32	13	22	32	13	22
CF105*****	1.0	32	11	20	32	11	20	32	11	20	32	13	22	37	13	22
CF855*****	8.5	38	20	29	48	19	29	48	19	29	59	23	35	50	30	40
CF905*****	9.0	38	20	29	59	21	31.5	49	21	31.5	50	30	40	50	30	40
CF955*****	9.5	38	20	29	50	22	35	50	22	35	50	30	40	59	30	40
CF106*****	10.0	48	17	27	50	22	35	50	22	35	57.5	25	39	59	30	40
CF116*****	11.0	48	18	27	50	22	35	50	22	35	59	30	40	59	30	40
CF126*****	12.0	48	19	29	50	22	35	50	22	35	59	30	40	59	40	40
CF136*****	13.0	48	19	29	50	30	30	50	30	30	59	30	40	59	40	40
CF146*****	14.0	49	21	31.5	59	23	35	59	23	35	59	40	40			
CF156*****	15.0	49	21	31.5	59	23	35	59	23	35	59	40	40			
CF166*****	10.0	50	22	35	59	23	35	59	23	35						
CF176*****	17.0	50	22	35	57.5	25	39	59	30	40						
CF186*****	18.0	50	22	35	57.5	25	39	59	40	40						
CF196*****	19.0	50	22	35	57.5	25	39	59	40	40						
CF206*****	20.0	59	23	35	57.5	25	39	59	40	40						
CF216*****	21.0	59	23	35	59	30	40									
CF226*****	22.0	59	23	35	59	30	40									
CF236*****	23.0	59	23	35	59	30	40									
CF246*****	24.0	59	23	35	59	30	40									
CF256*****	25.0	59	23	35	59	30	40									
CF266*****	26.0	50	25	36												
CF276*****	27.0	50	25	36												
CF286*****	10.0	50	30	40												
CF296*****	29.0	50	30	40												
CF306*****	30.0	50	30	40												

- The sizes of TR-WRAP FILL TYPE are excluded
- Sizes might be altered without notice.

EN60252-1 Standard



EN 60252-1



APPROVED BY VDE, IMQ

Class	Series	Capacitance Range	Voltage Range	Model Type	Licence No.
VDE HSFPU	MK	1uF~40uF	150Vac~300Vac	BM, BT, BL, RE...	VDE:104897 CB:DE 1-6355
VDE HSFPU	MK	1uF~5uF	350Vac~400Vac	BM, BT, BL, RE...	VDE:104896 CB:DE 1-6354
VDE GPFNT	MK	0.5uF~40uF	150Vac~450Vac	BM, BT, BL, RE...	VDE:116769 CB:DE 1-34021
VDE GPFPU	MK	0.5uF~40uF	150Vac~450Vac	BM, BT, BL, RE...	VDE:116769 CB:DE 1-32461
VDE HPFMS	MK	0.5uF~5uF	400Vac	BM, BT, BL, RE...	VDE:40008138
VDE HMFNT	MKR	1.5uF, 1.7uF, 2uF	400Vac	BM, BT, BL, RE...	VDE:94738
VDE HSFPU	MK	3uF~50uF	370Vac~450Vac	P2 Protection	VDE:94696
VDE GPFNT	MK	3uF~70uF	150Vac~450Vac	P2 Protection	VDE:
VDE HSFPU	MKP	1+1uF~12+12uF	150Vac~300Vac	BM, BT, BL, RE...	VDE:104893 CB:DE1-6352
VDE GPFPU	CP	0.5uF~10uF	150Vac~450Vac	BM, BT, BL, RE... (P2 Protection)	VDE:40001022 CB:DE1-34259
IMQ GPFNT	MK	0.5uF~10uF	350Vac~400Vac	BM, BT, BL, RE...	IMQ V4750
IMQ GPFPU	MK	0.5uF~10uF	450Vac	BM, BT, BL, RE..	IMQ V4750
IMQ HSFPU	MK	1uF~5uF	350Vac~400Vac	BM, BT, BL, RE...	IMQ V2791
IMQ HMFNT	MKR	1.5uF~3uF	400Vac	BM, BT, BL, RE...	IMQ V4721 CB:IT -1942

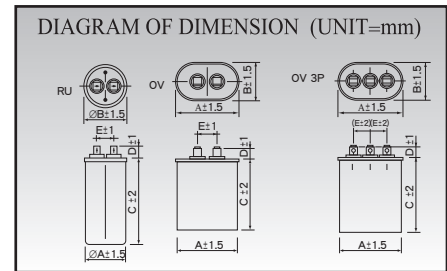
• Please contact us for details

APPROVED BY UL & CUR

Model RUP and OVP are metallized polypropylene film Capacitor with an Aluminum can and designed with the safety mechanism device, offering long life and reliable service.



- Voltage range - 600Vac.Max.
- Capacitance range - 3 μ F to 70 μ F standard
- Temperature range - -25°C to 70°C~90°C available
- Tolerance (%) - ± 5 , ± 10 , ± 20 , +10-5(Standard)
- Model - RUP, OVP and dual capacitors in one can
- Terminal - 2tine 1/4" quick-connect lug terminals are standard, 4 blades are available
- Fault Current - 10,000AFC
- CUR-recognized file no. E136210(N)
- UL-approved file no. E136210(N)



CASE DIMENSION OF STANDARD 370 VOLTAGE PRODUCT

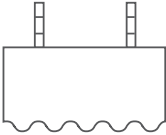
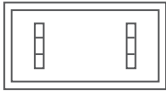
Capacitance (μ F)	Dimension		Capacitance (μ F)	Dimension OV3P(A x B x C)
	RU(A x C)	OV(A x B x C)		
3.0	40 x 50	55 x 35 x 40	15+3	54 x 34 x 75
4.0	40 x 50	55 x 35 x 40	15+4	54 x 34 x 75
5.0	40 x 50	55 x 35 x 40	15+5	54 x 34 x 75
6.0	40 x 50	55 x 35 x 40	15+7.5	54 x 34 x 75
7.0	40 x 50	55 x 35 x 55	15+10	54 x 34 x 75
7.5	40 x 50	55 x 35 x 55	15+12.5	64 x 34 x 75
8.0	40 x 50	55 x 35 x 55	17.5+4	54 x 34 x 75
9.0	40 x 50	55 x 35 x 55	17.5+5	54 x 34 x 75
10.0	40 x 50	55 x 35 x 55	20+3	54 x 34 x 75
12.0	40 x 50	55 x 35 x 65	20+4	54 x 34 x 75
12.5	40 x 50	55 x 35 x 65	20+5	54 x 34 x 75
15.0	40 x 50	55 x 35 x 65	20+10	64 x 37 x 75
17.0	40 x 60	55 x 35 x 75	20+12.5	64 x 37 x 75
17.5	40 x 60	55 x 35 x 75	20+15	64 x 37 x 75
20.0	40 x 60	55 x 35 x 70	25+3	64 x 37 x 75
22.5	40 x 70	55 x 35 x 75	25+4	64 x 37 x 75
25.0	40 x 70	55 x 35 x 75	25+5	64 x 37 x 75
27.5	40 x 70	64 x 37 x 65	25+7.5	64 x 37 x 75
30.0	40 x 70	64 x 37 x 65	25+10	64 x 37 x 75
35.0	40 x 90	64 x 37 x 75	25+12.5	64 x 37 x 75
40.0	40 x 90	64 x 37 x 75	30+3	64 x 37 x 95
45.0	40 x 90	64 x 37 x 95	30+4	64 x 37 x 95
50.0	40 x 120	64 x 37 x 95	30+5	64 x 37 x 95
55.0	45 x 120	64 x 37 x 95	30+7.5	64 x 37 x 95
60.0	45 x 120	64 x 37 x 95	30+10	64 x 37 x 95
65.0	51 x 120	64 x 37 x 95	30+12.5	64 x 37 x 95
70.0	51 x 120	64 x 37 x 120	35+3	64 x 37 x 95
75.0	51 x 120	64 x 37 x 120	35+4	64 x 37 x 95
80.0	56 x 120	71 x 46 x 120	35+5	64 x 37 x 95
			35+7.5	64 x 37 x 95
			35+10	64 x 37 x 95
			35+12.5	64 x 37 x 95

• Sizes might be altered without notice.

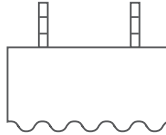
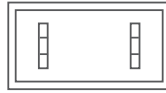


Terminal Code (Plastic Case with Terminals)

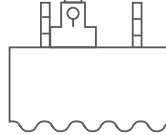
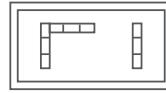
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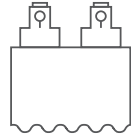
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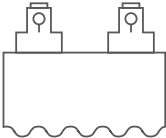
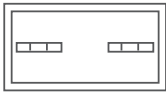
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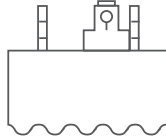
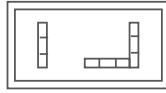
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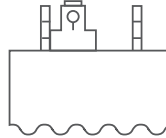
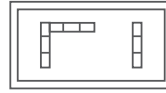
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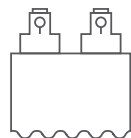
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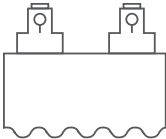
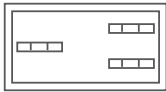
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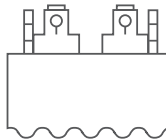
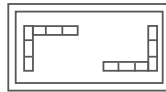
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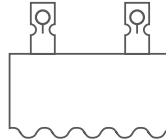
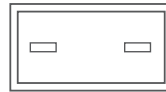
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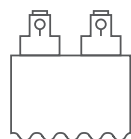
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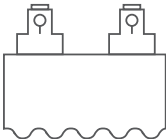
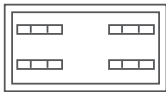
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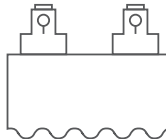
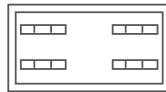
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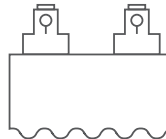
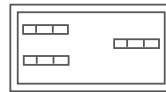
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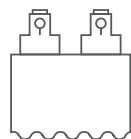
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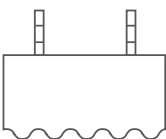
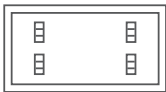
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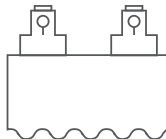
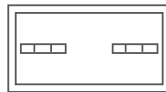
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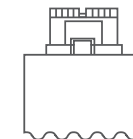
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AMP#250-5



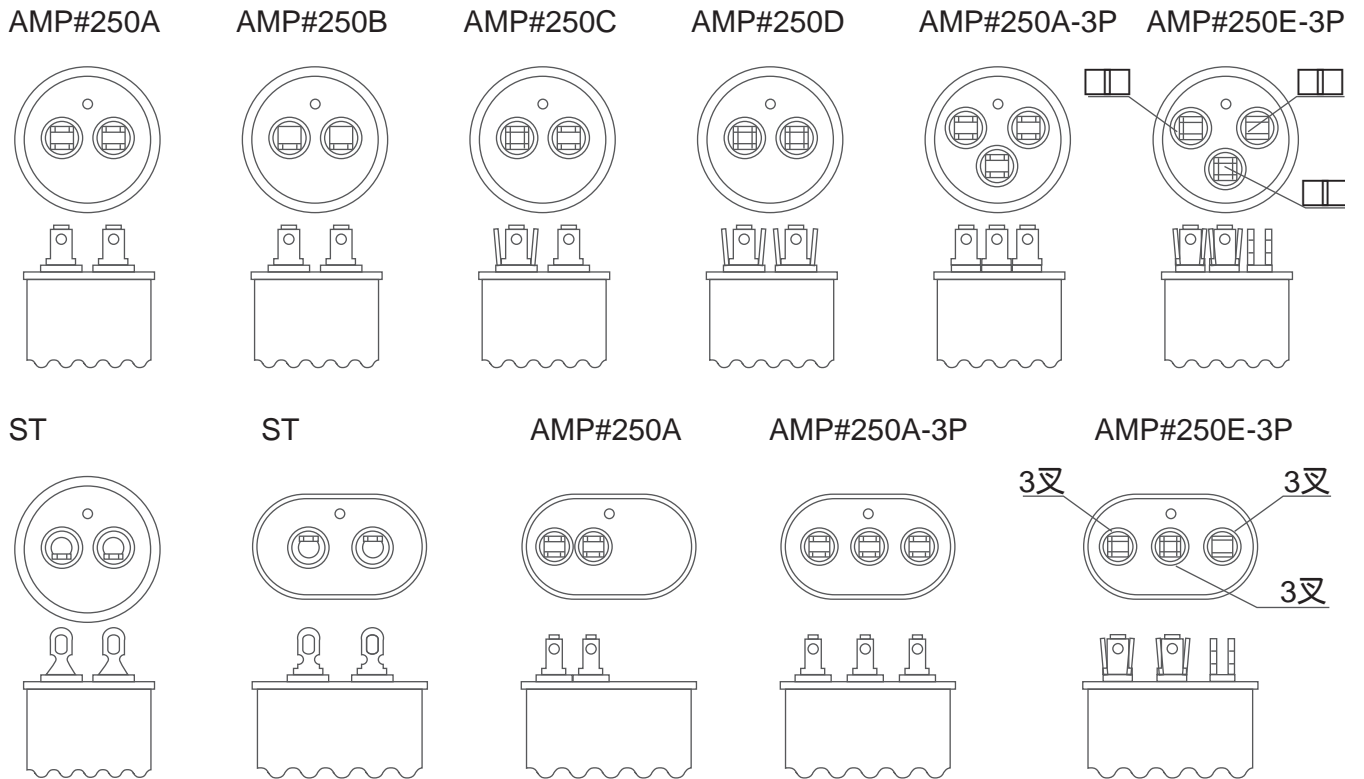
Quick Connector



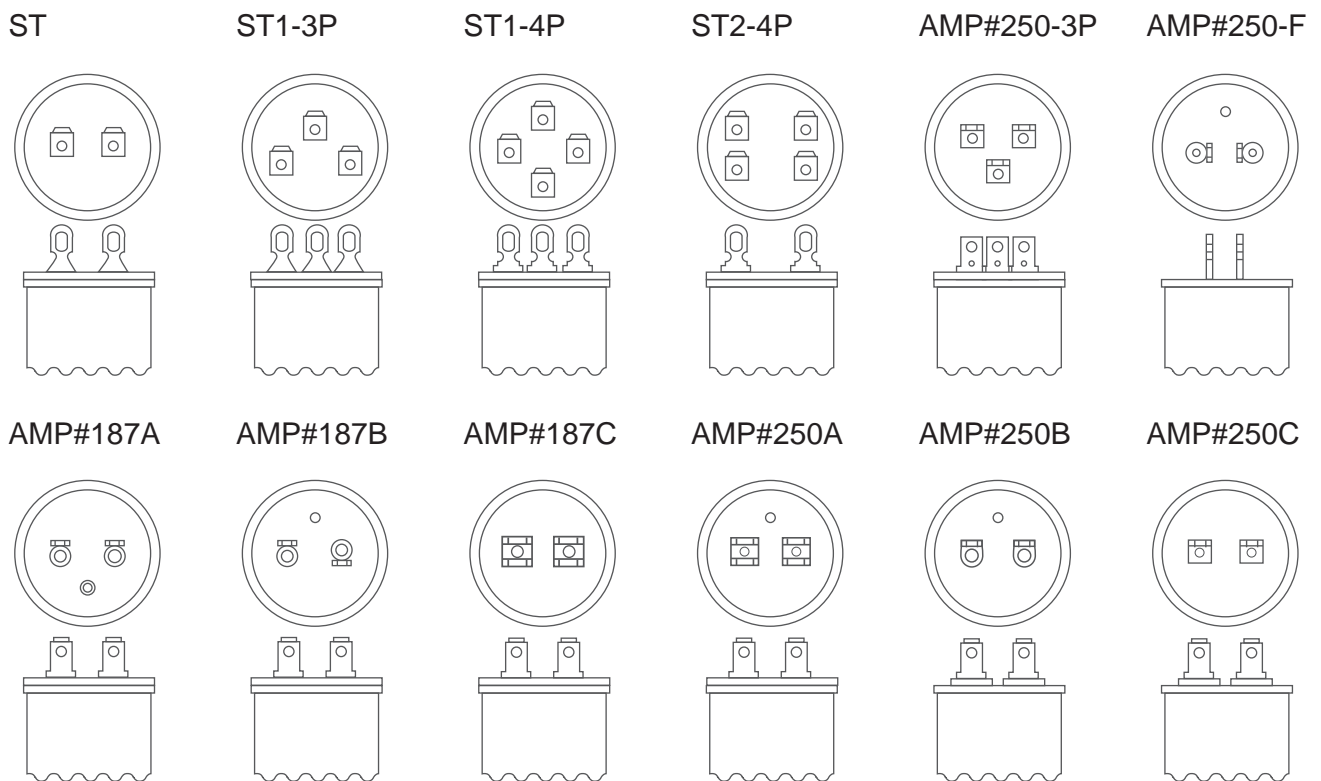
*** Remarks:**

- Terminals: #250 (width 6.35mm)
- Terminals: #187 (width 4.75mm)
- Terminals: ST (width 4.0mm)

Terminal Code (Aluminium Cover with Terminals)



Terminal Code (Bakelite Cover with Terminals)



Capacitance Change & Dissipation Factor VS. Temperature

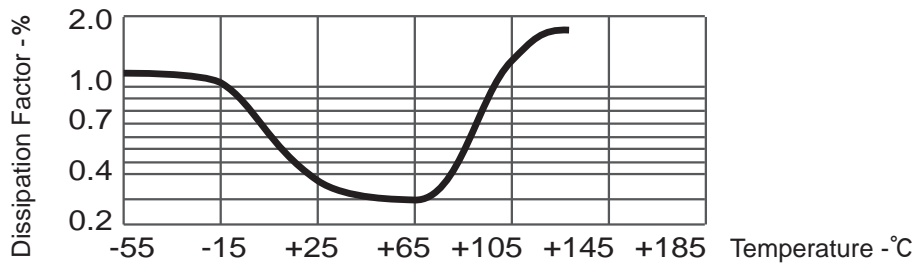
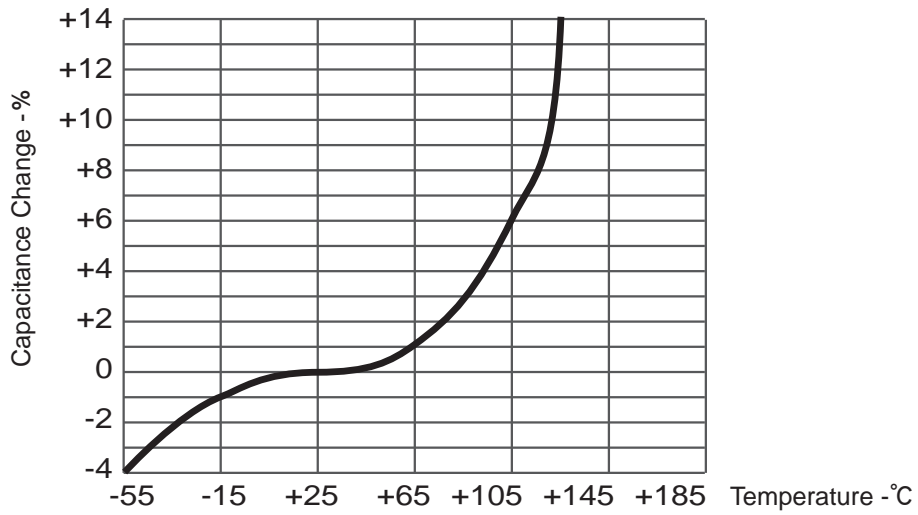


FIGURE 1 (POLYESTER FILM)

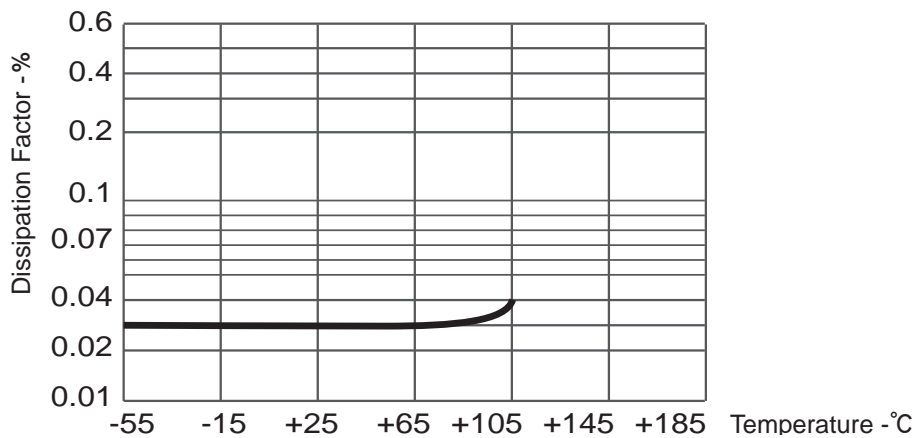
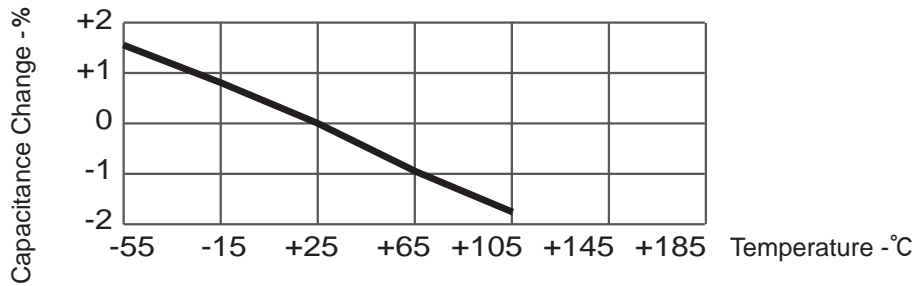


FIGURE 2 (POLYPROPYLENE FILM)