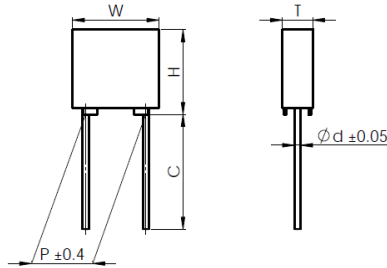


Box-type metallized polyester film capacitor (Stacked version)

■ Outline Drawing



■ Features

- Metallized polyester film, stacked construction
- Plastic case (UL94 V-0), Epoxy resin sealing
- High dv/dt ability

■ Typical Applications:

- By-passing, blocking, coupling, decoupling,
- Pulse logic, timing, compact fluorescent lamps.
- Inverter for LCD monitors, automotive DC motor suppression

■ Specifications

Reference Standard	GB 7332(IEC 60384-2)		
Climatic Category	55/125/56		
Rated temperature	85°C		
Operating temperature	-55°C~125°C (+85°C to +125°C: decreasing factor 1.25% per °C for U_R)		
Rated Voltage	50/63V, 100V, 250V, 400V, 500V, 630V, 700V		
Capacitance Range	0.0010 μ F ~ 2.2 μ F		
Capacitance Tolerance	\pm 5%(J), \pm 10%(K), \pm 20%(M)		
Voltage Proof	1.4 U_R (5s)		
Dissipation Factor	Frequency	$C_N \leq 0.1\mu$ F	$C_N > 0.1\mu$ F
	1kHz	\leq 1.0%	\leq 1.0%
	10kHz	\leq 1.5%	\leq 1.5%
	100kHz	\leq 3.0%	-
Insulation Resistance	$U_R > 100V$	\geq 3 0000 Ω , $C_N \leq 0.33\mu$ F \geq 10 000s, $C_N > 0.33\mu$ F	(20°C, 100V, 1min)
	$U_R \leq 100V$	\geq 15 000 Ω , $C_N \leq 0.33\mu$ F \geq 5 000s, 0.33μ F < $C_N \leq 1\mu$ F \geq 1 000s, $C_N > 1\mu$ F	(20°C, 10V, 1min)
Maximum Pulse Rise Time(dV/dt) If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	U_R (V)	dV/dt (V/ μ s)	
		pattern I	pattern II
	50/63	250	75
	100	300	85
	250	400	100
	400	600	150
	500	700	200
630	800		
700	-	250	

■ Part number system

The 15 digits part number is formed as follow:

C24 Pattern I (High performance)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	2	4							2	0				

C24 Pattern II (Reduced size)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	2	4							2	S				

Digit 1 to 3 Series code

C24=CL23B

Digit 4 to 5 DC rated voltage

1H=50V 1J=63V 2A=100V 2E=250V

2G=400V 2H=500V 2J=630V 1V=700V

Digit 6 to 8 Rated capacitance value

For example : 103=10×10³pF=0.01uF

Digit 9 Capacitance tolerance

J=±5%,K=±10%, M=±20%

Digit 10 Lead pitch

2=5.0

Digit 11 Internal use

S=pattern II

Digit 12 to 15 Lead form and packaging code

Table 1 lead dimensions and packaging code

Digit 12		Digit 13		Digit 14		Digit 15	
code	explanation	code	explanation	code	explanation	code	explanation
A	ammo-pack	2	F=5.0mm	0	straight	1	each cap. among two consecutive holes P3=12.7mm,H=18.5mm (For pitch=5.0mm)
C	straight lead "C" in the figure above	code	explanation			0	Length tolerance ±0.5mm Or standard length
		00	standard lead length (16mm~22mm)				
		45	lead length 4.5mm				

Note: Recommend short lead due to long lead could deform easily.



■ Dimensions(mm)

Capacitor Thickness: T	≤3.5	>3.5
Dimension Tolerance (W, H, T)	±0.2	±0.4

Pattern II (Reduced size)

50Vdc (30Vac)/63Vdc (40Vac) #						
C _N (μF)	W	H	T	P	d	Part number
0.15	7.2	6.5	2.5	5.0	0.5	C241J154-2S****
0.18	7.2	6.5	2.5	5.0	0.5	C241J184-2S****
0.22	7.2	6.5	2.5	5.0	0.5	C241J224-2S****
0.27	7.2	6.5	2.5	5.0	0.5	C241J274-2S****
0.33	7.2	7.5	3.5	5.0	0.5	C241J334-2S****
0.39	7.2	7.5	3.5	5.0	0.5	C241J394-2S****
0.47	7.2	7.5	3.5	5.0	0.5	C241J474-2S****
0.56	7.2	9.5	4.5	5.0	0.6	C241J564-2S****
0.68	7.2	9.5	4.5	5.0	0.6	C241J684-2S****
0.82	7.2	9.5	4.5	5.0	0.6	C241J824-2S****
1.0	7.2	10.0	5.0	5.0	0.6	C241J105-2S****
1.5	7.2	11.0	6.0	5.0	0.6	C241J155-2S****
2.2	7.2	11.0	6.0	5.0	0.6	C241J225-2S****

100 Vdc (63Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.10	7.2	6.5	2.5	5.0	0.5	C242A104-2S****
0.12	7.2	6.5	2.5	5.0	0.5	C242A124-2S****
0.15	7.2	7.5	3.5	5.0	0.5	C242A154-2S****
0.18	7.2	7.5	3.5	5.0	0.5	C242A184-2S****
0.22	7.2	7.5	3.5	5.0	0.5	C242A224-2S****
0.27	7.2	9.5	4.5	5.0	0.6	C242A274-2S****
0.33	7.2	9.5	4.5	5.0	0.6	C242A334-2S****
0.39	7.2	9.5	4.5	5.0	0.6	C242A394-2S****
0.47	7.2	10.0	5.0	5.0	0.6	C242A474-2S****
0.56	7.2	10.0	5.0	5.0	0.6	C242A564-2S****
0.68	7.2	11.0	6.0	5.0	0.6	C242A684-2S****
0.82	7.2	11.0	6.0	5.0	0.6	C242A824-2S****
1.0	7.2	11.0	6.0	5.0	0.6	C242A105-2S****

250 Vdc (140Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.022	7.2	6.5	2.5	5.0	0.5	C242E223-2S****
0.027	7.2	6.5	2.5	5.0	0.5	C242E273-2S****
0.033	7.2	6.5	2.5	5.0	0.5	C242E333-2S****
0.039	7.2	7.5	3.5	5.0	0.5	C242E393-2S****
0.047	7.2	7.5	3.5	5.0	0.5	C242E473-2S****
0.056	7.2	7.5	3.5	5.0	0.5	C242E563-2S****
0.068	7.2	7.5	3.5	5.0	0.5	C242E683-2S****
0.082	7.2	9.5	4.5	5.0	0.6	C242E823-2S****
0.10	7.2	9.5	4.5	5.0	0.6	C242E104-2S****
0.12	7.2	9.5	4.5	5.0	0.6	C242E124-2S****
0.15	7.2	10.0	5.0	5.0	0.6	C242E154-2S****
0.18	7.2	11.0	6.0	5.0	0.6	C242E184-2S****
0.22	7.2	11.0	6.0	5.0	0.6	C242E224-2S****

400 Vdc (160Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.0056	7.2	6.5	2.5	5.0	0.5	C242G562-2S****
0.0068	7.2	6.5	2.5	5.0	0.5	C242G682-2S****
0.0082	7.2	6.5	2.5	5.0	0.5	C242G822-2S****
0.010	7.2	6.5	2.5	5.0	0.5	C242G103-2S****
0.012	7.2	6.5	2.5	5.0	0.5	C242G123-2S****
0.015	7.2	7.5	3.5	5.0	0.5	C242G153-2S****
0.018	7.2	7.5	3.5	5.0	0.5	C242G183-2S****
0.022	7.2	7.5	3.5	5.0	0.5	C242G223-2S****
0.027	7.2	7.5	3.5	5.0	0.5	C242G273-2S****
0.033	7.2	9.5	4.5	5.0	0.6	C242G333-2S****
0.039	7.2	9.5	4.5	5.0	0.6	C242G393-2S****
0.047	7.2	9.5	4.5	5.0	0.6	C242G473-2S****
0.051	7.2	10.0	5.0	5.0	0.6	C242G513-2S****
0.056	7.2	11.0	6.0	5.0	0.6	C242G563-2S****
0.068	7.2	11.0	6.0	5.0	0.6	C242G683-2S****
0.082	7.2	11.0	6.0	5.0	0.6	C242G823-2S****
0.10	7.2	11.0	6.0	5.0	0.6	C242G104-2S****

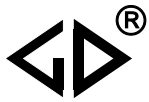
- Note: 1. “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
 2. “****”=lead form and packing code (refer to table 1).
 3. “#” when the rated voltage is 50Vdc,the digit 4~5 is 1H.

Pattern II (Reduced size)

500 Vdc/630(220Vac) [#]						
C _N (μF)	W	H	T	P	d	Part number
0.0018	7.2	6.5	2.5	5.0	0.5	C242J182-2S****
0.0022	7.2	6.5	2.5	5.0	0.5	C242J222-2S****
0.0027	7.2	6.5	2.5	5.0	0.5	C242J272-2S****
0.0033	7.2	6.5	2.5	5.0	0.5	C242J332-2S****
0.0039	7.2	6.5	2.5	5.0	0.5	C242J392-2S****
0.0047	7.2	6.5	2.5	5.0	0.5	C242J472-2S****
0.0056	7.2	7.5	3.5	5.0	0.5	C242J562-2S****
0.0068	7.2	7.5	3.5	5.0	0.5	C242J682-2S****
0.0082	7.2	7.5	3.5	5.0	0.5	C242J822-2S****
0.010	7.2	7.5	3.5	5.0	0.5	C242J103-2S****
0.012	7.2	9.5	4.5	5.0	0.6	C242J123-2S****
0.015	7.2	9.5	4.5	5.0	0.6	C242J153-2S****
0.018	7.2	9.5	4.5	5.0	0.6	C242J183-2S****
0.022	7.2	10.0	5.0	5.0	0.6	C242J223-2S****
0.027	7.2	11.0	6.0	5.0	0.6	C242J273-2S****
0.033	7.2	11.0	6.0	5.0	0.6	C242J333-2S****

700 Vdc (250Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.0010	7.2	6.5	2.5	5.0	0.5	C241V102-2S****
0.0012	7.2	6.5	2.5	5.0	0.5	C241V122-2S****
0.0015	7.2	6.5	2.5	5.0	0.5	C241V152-2S****
0.0018	7.2	6.5	2.5	5.0	0.5	C241V182-2S****
0.0022	7.2	6.5	2.5	5.0	0.5	C241V222-2S****
0.0027	7.2	6.5	2.5	5.0	0.5	C241V272-2S****
0.0033	7.2	7.5	3.5	5.0	0.5	C241V332-2S****
0.0039	7.2	7.5	3.5	5.0	0.5	C241V392-2S****
0.0047	7.2	7.5	3.5	5.0	0.5	C241V472-2S****
0.0056	7.2	7.5	3.5	5.0	0.5	C241V562-2S****
0.0068	7.2	7.5	3.5	5.0	0.5	C241V682-2S****
0.0082	7.2	9.5	4.5	5.0	0.6	C241V822-2S****
0.010	7.2	9.5	4.5	5.0	0.6	C241V103-2S****
0.012	7.2	9.5	4.5	5.0	0.6	C241V123-2S****
0.015	7.2	10.0	5.0	5.0	0.6	C241V153-2S****
0.018	7.2	11.0	6.0	5.0	0.6	C241V183-2S****
0.022	7.2	11.0	6.0	5.0	0.6	C241V223-2S****

- Note:
1. “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
 2. “****”=lead dimensions and packing mode code (refer to table 1).
 3. “#” when the rated voltage is 500Vdc,the digit 4~5 is 2H.



Pattern I (High performance)

50Vdc (30Vac)/63Vdc (40Vac) #						
C _N (μF)	W	H	T	P	d	Part number
0.0010	7.2	6.5	2.5	5.0	0.5	C241J102-20****
0.0012	7.2	6.5	2.5	5.0	0.5	C241J122-20****
0.0015	7.2	6.5	2.5	5.0	0.5	C241J152-20****
0.0018	7.2	6.5	2.5	5.0	0.5	C241J182-20****
0.0022	7.2	6.5	2.5	5.0	0.5	C241J222-20****
0.0027	7.2	6.5	2.5	5.0	0.5	C241J272-20****
0.0033	7.2	6.5	2.5	5.0	0.5	C241J332-20****
0.0039	7.2	6.5	2.5	5.0	0.5	C241J392-20****
0.0047	7.2	6.5	2.5	5.0	0.5	C241J472-20****
0.0056	7.2	6.5	2.5	5.0	0.5	C241J562-20****
0.0068	7.2	6.5	2.5	5.0	0.5	C241J682-20****
0.0082	7.2	6.5	2.5	5.0	0.5	C241J822-20****
0.010	7.2	6.5	2.5	5.0	0.5	C241J103-20****
0.012	7.2	6.5	2.5	5.0	0.5	C241J123-20****
0.015	7.2	6.5	2.5	5.0	0.5	C241J153-20****
0.018	7.2	6.5	2.5	5.0	0.5	C241J183-20****
0.022	7.2	6.5	2.5	5.0	0.5	C241J223-20****
0.027	7.2	6.5	2.5	5.0	0.5	C241J273-20****
0.033	7.2	6.5	2.5	5.0	0.5	C241J333-20****
0.039	7.2	6.5	2.5	5.0	0.5	C241J393-20****
0.047	7.2	6.5	2.5	5.0	0.5	C241J473-20****
0.056	7.2	6.5	2.5	5.0	0.5	C241J563-20****
0.068	7.2	6.5	2.5	5.0	0.5	C241J683-20****
0.082	7.2	6.5	2.5	5.0	0.5	C241J823-20****
0.10	7.2	6.5	2.5	5.0	0.5	C241J104-20****
0.12	7.2	6.5	2.5	5.0	0.5	C241J124-20****
0.15	7.2	7.5	3.5	5.0	0.5	C241J154-20****
0.18	7.2	7.5	3.5	5.0	0.5	C241J184-20****
0.22	7.2	7.5	3.5	5.0	0.5	C241J224-20****
0.27	7.2	9.5	4.5	5.0	0.6	C241J274-20****
0.33	7.2	9.5	4.5	5.0	0.6	C241J334-20****
0.39	7.2	9.5	4.5	5.0	0.6	C241J394-20****
0.47	7.2	10.0	5.0	5.0	0.6	C241J474-20****
0.56	7.2	10.0	5.0	5.0	0.6	C241J564-20****
0.68	7.2	11.0	6.0	5.0	0.6	C241J684-20****
0.82	7.2	11.0	6.0	5.0	0.6	C241J824-20****
1.0	7.2	11.0	6.0	5.0	0.6	C241J105-20****

100 Vdc (63Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.0010	7.2	6.5	2.5	5.0	0.5	C242A102-20****
0.0012	7.2	6.5	2.5	5.0	0.5	C242A122-20****
0.0015	7.2	6.5	2.5	5.0	0.5	C242A152-20****
0.0018	7.2	6.5	2.5	5.0	0.5	C242A182-20****
0.0022	7.2	6.5	2.5	5.0	0.5	C242A222-20****
0.0027	7.2	6.5	2.5	5.0	0.5	C242A272-20****
0.0033	7.2	6.5	2.5	5.0	0.5	C242A332-20****
0.0039	7.2	6.5	2.5	5.0	0.5	C242A392-20****
0.0047	7.2	6.5	2.5	5.0	0.5	C242A472-20****
0.0056	7.2	6.5	2.5	5.0	0.5	C242A562-20****
0.0068	7.2	6.5	2.5	5.0	0.5	C242A682-20****
0.0082	7.2	6.5	2.5	5.0	0.5	C242A822-20****
0.010	7.2	6.5	2.5	5.0	0.5	C242A103-20****
0.012	7.2	6.5	2.5	5.0	0.5	C242A123-20****
0.015	7.2	6.5	2.5	5.0	0.5	C242A153-20****
0.018	7.2	6.5	2.5	5.0	0.5	C242A183-20****
0.022	7.2	6.5	2.5	5.0	0.5	C242A223-20****
0.027	7.2	6.5	2.5	5.0	0.5	C242A273-20****
0.033	7.2	6.5	2.5	5.0	0.5	C242A333-20****
0.039	7.2	6.5	2.5	5.0	0.5	C242A393-20****
0.047	7.2	6.5	2.5	5.0	0.5	C242A473-20****
0.056	7.2	6.5	2.5	5.0	0.5	C242A563-20****
0.068	7.2	6.5	2.5	5.0	0.5	C242A683-20****
0.082	7.2	6.5	2.5	5.0	0.5	C242A823-20****
0.10	7.2	7.5	3.5	5.0	0.5	C242A104-20****
0.12	7.2	9.5	4.5	5.0	0.6	C242A124-20****
0.15	7.2	9.5	4.5	5.0	0.6	C242A154-20****
0.18	7.2	9.5	4.5	5.0	0.6	C242A184-20****
0.22	7.2	10.0	5.0	5.0	0.6	C242A224-20****
0.27	7.2	10.0	5.0	5.0	0.6	C242A274-20****
0.33	7.2	11.0	6.0	5.0	0.6	C242A334-20****
0.39	7.2	11.0	6.0	5.0	0.6	C242A394-20****
0.47	7.2	11.0	6.0	5.0	0.6	C242A474-20****
0.56	7.2	11.0	6.0	5.0	0.6	C242A564-20****

- Note: 1. “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
 2. “****”=lead form and packing code (refer to table 1).
 3. “#” when the rated voltage is 50Vdc,the digit 4~5 is 1H.

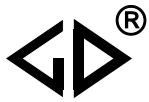


Pattern I (High performance)

250 Vdc (160Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.0010	7.2	6.5	2.5	5.0	0.5	C242E102-20****
0.0012	7.2	6.5	2.5	5.0	0.5	C242E122-20****
0.0015	7.2	6.5	2.5	5.0	0.5	C242E152-20****
0.0018	7.2	6.5	2.5	5.0	0.5	C242E182-20****
0.0022	7.2	6.5	2.5	5.0	0.5	C242E222-20****
0.0027	7.2	6.5	2.5	5.0	0.5	C242E272-20****
0.0033	7.2	6.5	2.5	5.0	0.5	C242E332-20****
0.0039	7.2	6.5	2.5	5.0	0.5	C242E392-20****
0.0047	7.2	6.5	2.5	5.0	0.5	C242E472-20****
0.0056	7.2	6.5	2.5	5.0	0.5	C242E562-20****
0.0068	7.2	6.5	2.5	5.0	0.5	C242E682-20****
0.0082	7.2	6.5	2.5	5.0	0.5	C242E822-20****
0.010	7.2	6.5	2.5	5.0	0.5	C242E103-20****
0.012	7.2	6.5	2.5	5.0	0.5	C242E123-20****
0.015	7.2	6.5	2.5	5.0	0.5	C242E153-20****
0.018	7.2	6.5	2.5	5.0	0.5	C242E183-20****
0.022	7.2	7.5	3.5	5.0	0.5	C242E223-20****
0.027	7.2	7.5	3.5	5.0	0.5	C242E273-20****
0.033	7.2	7.5	3.5	5.0	0.5	C242E333-20****
0.039	7.2	7.5	3.5	5.0	0.5	C242E393-20****
0.047	7.2	9.5	4.5	5.0	0.6	C242E473-20****
0.056	7.2	9.5	4.5	5.0	0.6	C242E563-20****
0.068	7.2	9.5	4.5	5.0	0.6	C242E683-20****
0.082	7.2	10.0	5.0	5.0	0.6	C242E823-20****
0.10	7.2	10.0	5.0	5.0	0.6	C242E104-20****
0.12	7.2	11.0	6.0	5.0	0.6	C242E124-20****
0.15	7.2	11.0	6.0	5.0	0.6	C242E154-20****

400 Vdc (200Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.0010	7.2	6.5	2.5	5.0	0.5	C242G102-20****
0.0012	7.2	6.5	2.5	5.0	0.5	C242G122-20****
0.0015	7.2	6.5	2.5	5.0	0.5	C242G152-20****
0.0018	7.2	6.5	2.5	5.0	0.5	C242G182-20****
0.0022	7.2	6.5	2.5	5.0	0.5	C242G222-20****
0.0027	7.2	6.5	2.5	5.0	0.5	C242G272-20****
0.0033	7.2	6.5	2.5	5.0	0.5	C242G332-20****
0.0039	7.2	6.5	2.5	5.0	0.5	C242G392-20****
0.0047	7.2	6.5	2.5	5.0	0.5	C242G472-20****
0.0056	7.2	7.5	3.5	5.0	0.5	C242G562-20****
0.0068	7.2	7.5	3.5	5.0	0.5	C242G682-20****
0.0082	7.2	7.5	3.5	5.0	0.5	C242G822-20****
0.010	7.2	7.5	3.5	5.0	0.5	C242G103-20****
0.012	7.2	9.5	4.5	5.0	0.6	C242G123-20****
0.015	7.2	9.5	4.5	5.0	0.6	C242G153-20****
0.018	7.2	9.5	4.5	5.0	0.6	C242G183-20****
0.022	7.2	10.0	5.0	5.0	0.6	C242G223-20****
0.027	7.2	11.0	6.0	5.0	0.6	C242G273-20****
0.033	7.2	11.0	6.0	5.0	0.6	C242G333-20****
0.039	7.2	11.0	6.0	5.0	0.6	C242G393-20****
0.047	7.2	11.0	6.0	5.0	0.6	C242G473-20****

- Note: 1. "-"=capacitance tolerance code, M=±20%,K=±10%,J=±5%
 2. "****"=lead form and packing code (refer to table 1).



Pattern I (High performance)

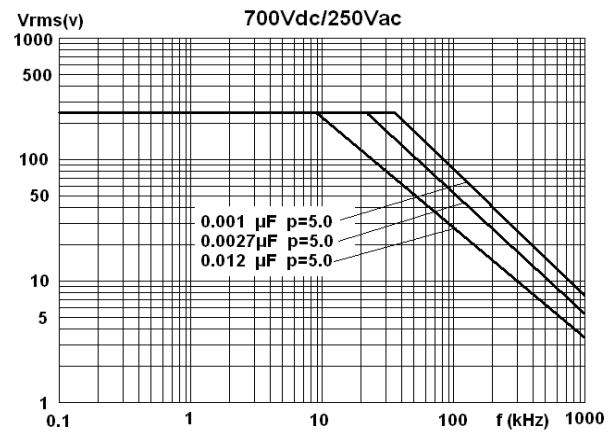
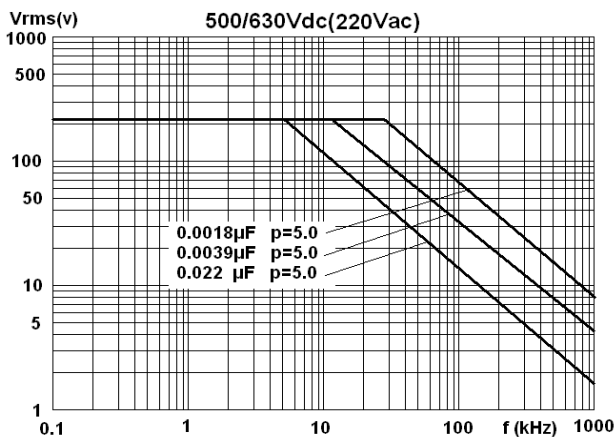
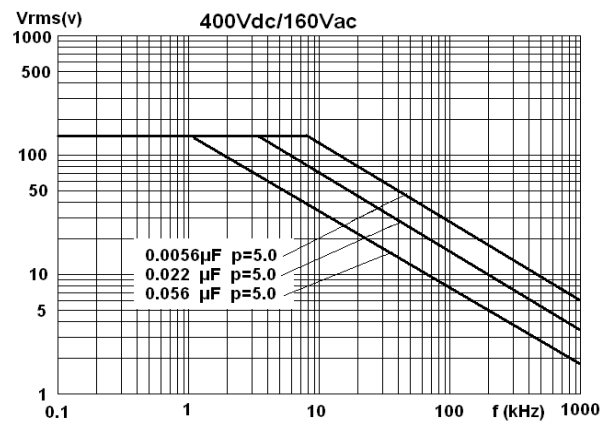
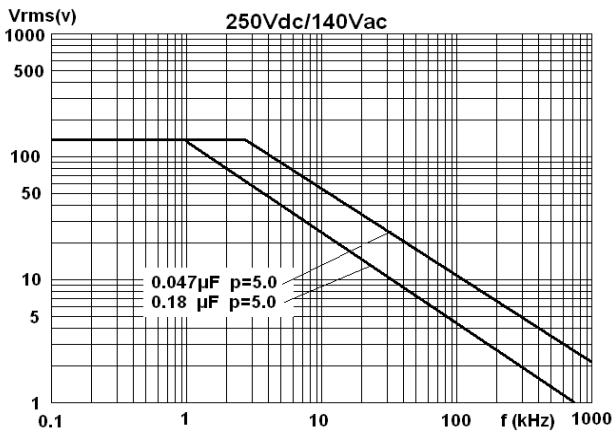
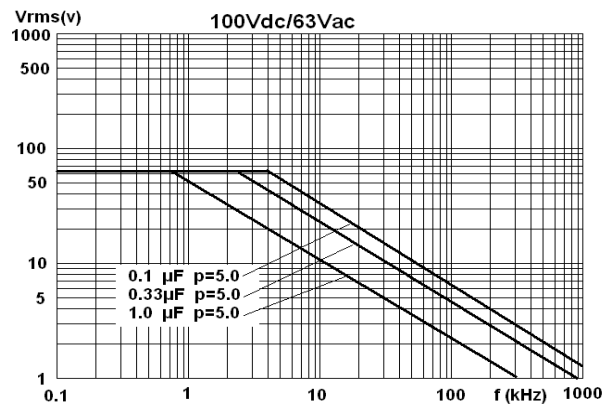
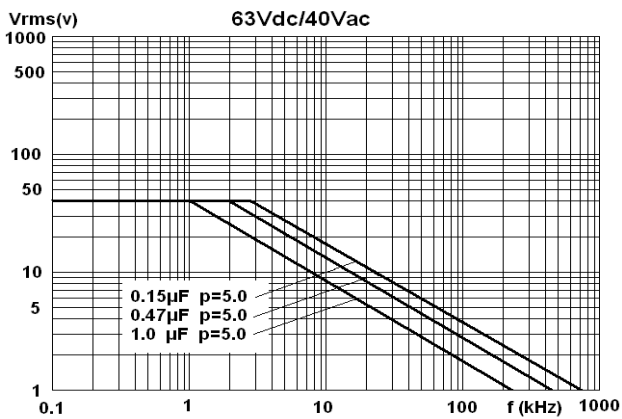
500 Vdc (220Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.0010	7.2	6.5	2.5	5.0	0.5	C242H102-20****
0.0012	7.2	6.5	2.5	5.0	0.5	C242H122-20****
0.0015	7.2	6.5	2.5	5.0	0.5	C242H152-20****
0.0018	7.2	6.5	2.5	5.0	0.5	C242H182-20****
0.0022	7.2	6.5	2.5	5.0	0.5	C242H222-20****
0.0027	7.2	6.5	2.5	5.0	0.5	C242H272-20****
0.0033	7.2	7.5	3.5	5.0	0.5	C242H332-20****
0.0039	7.2	7.5	3.5	5.0	0.5	C242H392-20****
0.0047	7.2	7.5	3.5	5.0	0.5	C242H472-20****
0.0056	7.2	7.5	3.5	5.0	0.5	C242H562-20****
0.0068	7.2	9.5	4.5	5.0	0.6	C242H682-20****
0.0082	7.2	9.5	4.5	5.0	0.6	C242H822-20****
0.010	7.2	9.5	4.5	5.0	0.6	C242H103-20****
0.012	7.2	9.5	4.5	5.0	0.6	C242H123-20****
0.015	7.2	10.0	5.0	5.0	0.6	C242H153-20****
0.018	7.2	11.0	6.0	5.0	0.6	C242H183-20****
0.022	7.2	11.0	6.0	5.0	0.6	C242H223-20****
0.027	7.2	11.0	6.0	5.0	0.6	C242H273-20****

630 Vdc (220Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.0010	7.2	6.5	2.5	5.0	0.5	C242J102-20****
0.0012	7.2	6.5	2.5	5.0	0.5	C242J122-20****
0.0015	7.2	6.5	2.5	5.0	0.5	C242J152-20****
0.0018	7.2	7.5	3.5	5.0	0.5	C242J182-20****
0.0022	7.2	7.5	3.5	5.0	0.5	C242J222-20****
0.0027	7.2	7.5	3.5	5.0	0.5	C242J272-20****
0.0033	7.2	7.5	3.5	5.0	0.5	C242J332-20****
0.0039	7.2	7.5	3.5	5.0	0.5	C242J392-20****
0.0047	7.2	9.5	4.5	5.0	0.6	C242J472-20****
0.0056	7.2	9.5	4.5	5.0	0.6	C242J562-20****
0.0068	7.2	9.5	4.5	5.0	0.6	C242J682-20****
0.0082	7.2	9.5	4.5	5.0	0.6	C242J822-20****
0.010	7.2	10.0	5.0	5.0	0.6	C242J103-20****
0.012	7.2	11.0	6.0	5.0	0.6	C242J123-20****
0.015	7.2	11.0	6.0	5.0	0.6	C242J153-20****
0.018	7.2	11.0	6.0	5.0	0.6	C242J183-20****

- Note: 1. “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
 2. “****”=lead form and packing code (refer to table 1).

■ MAX. VOLTAGE(Vr.m.s) VERSUS FREQUENCY

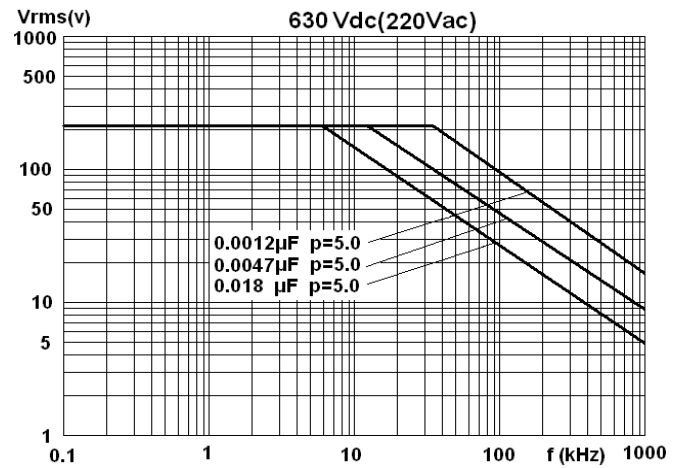
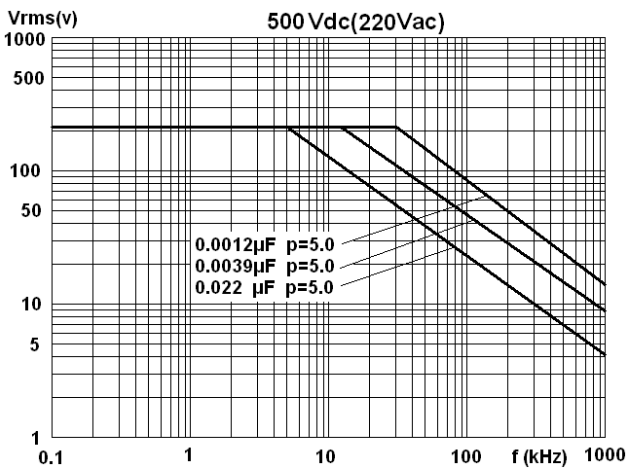
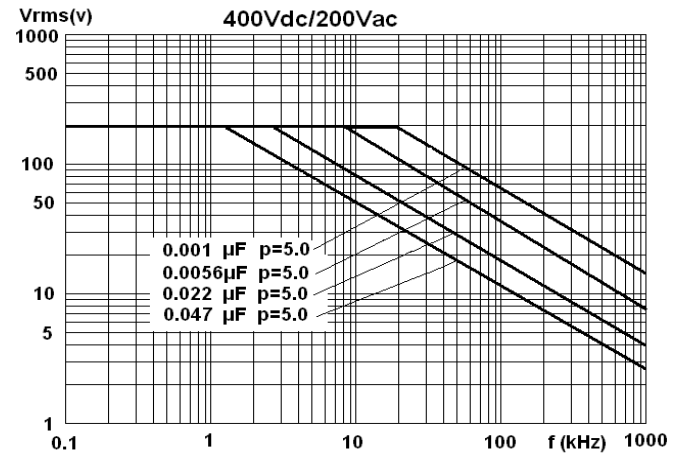
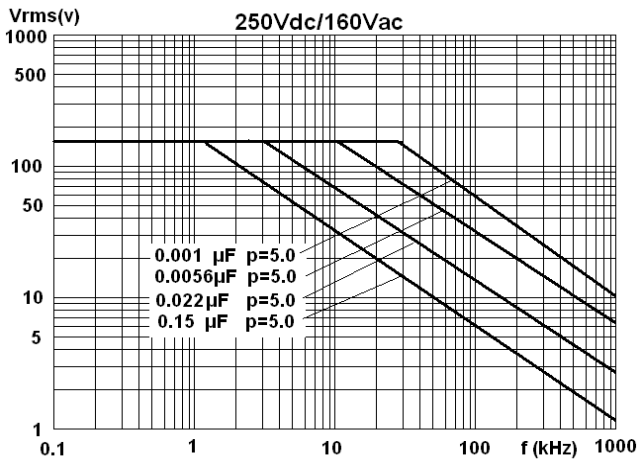
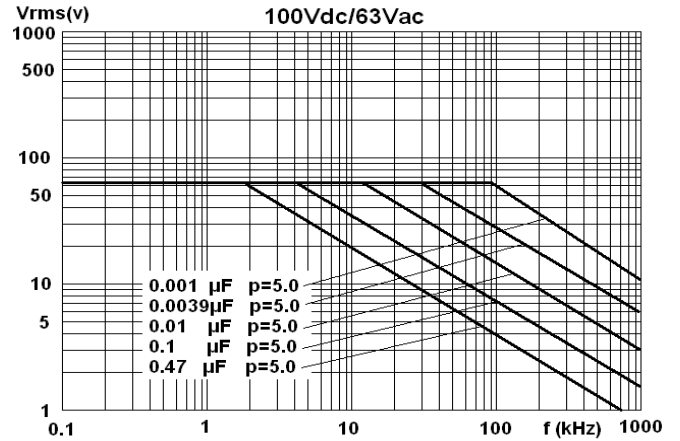
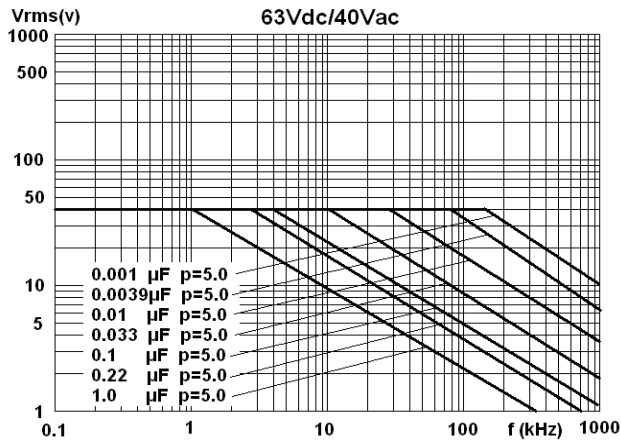
Pattern II (Reduced sized)



Note: sinusoidal wave-form、 environment temperature $\leq 85^{\circ}\text{C}$, internal temperature rise $\Delta T=15^{\circ}\text{C}$, p (pitch) in mm..

■ MAX. VOLTAGE(Vr.m.s) VERSUS FREQUENCY

Pattern I (High performance)



Note: sinusoidal wave-form, environment temperature $\leq 85^{\circ}\text{C}$, internal temperature rise $\Delta T=15^{\circ}\text{C}$, p (pitch) in mm..

■ Test Method And Performance

No.	Item	Performance	Test method GB/T 7332 (IEC60384-2)
1	Capacitance tolerance	J($\pm 5\%$), K($\pm 10\%$), M($\pm 20\%$)	1kHz, 3% U_R (V_{rms})max.
2	Tangent of the loss angle	$\tan\delta \leq 0.010$ (1kHz) $\tan\delta \leq 0.015$ (10kHz) $\tan\delta \leq 0.030$ (100kHz, $C < 0.1\mu F$)	1kHz or 10 kHz or 100 kHz $\leq 3\% U_R$ (V_{rms}) or 1 V_{rms} (whichever is the minor)
3	Dielectric strength	There shall be no breakdown or flashover.	1.4 U_R , 5s
4	Insulation resistance	$U_R \leq 100V$ $\geq 15\ 000M\Omega$, $C_N \leq 0.33\mu F$ $\geq 5\ 000s$, $0.33\mu F < C_N \leq 1\mu F$ $\geq 1\ 000s$, $C_N > 1\mu F$ $U_R > 100V$ $\geq 3\ 0000M\Omega$, $C_N \leq 0.33\mu F$ $\geq 10\ 000s$, $C_N > 0.33\mu F$,	$U_R \leq 100V$, Charging voltage 10V $U_R > 100V$, Charging voltage 100V 20°C, measuring after applying voltage for 1 minute
5	Solderability	Good quality of tinning	Solder temperature: 245°C $\pm 5^\circ C$ Immersion time: 2.0s $\pm 0.5s$
6	Initial measurement	Capacitance, $\tan\delta$ (10kHz)	
	Terminal Strength (straight lead)	There shall be no visible damage	Tension U_{a1} : Pull: $\phi d = 0.5mm, 5N$; $\phi d = 0.6mm, 10N$ Bend U_b : The pull of bend: $\phi d = 0.5mm, 2.5N$ $\phi d = 0.6mm, 5N$ The terminals shall be bent 2 times in each direction.
	Resistance to solder heat	There shall be no visible damage	Solder temperature: 260°C $\pm 5^\circ C$ Immersion time: 10s $\pm 1s$
	Final measurement	$\Delta C/C \leq \pm 2\%$ (relative to the initial value) Increase of $\tan\delta$: ≤ 0.003 (10kHz)	
7	Component's resistance of solvents	The dimensions shall reach the requirement of Table 1, and the change of capacitor weight shall not beyond 1%.	Solvent: Industrial isopropanol. Solvent temperature: 23°C $\pm 5^\circ C$ Immersion time: 5min $\pm 0.5min$ Reverting time: 48h
8	Initial measurement	Capacitance, $\tan\delta$ (10kHz)	
	Rapid change of temperature	There shall be no evidence of deterioration.	$\theta_A = -55^\circ C$, $\theta_B = +125^\circ C$ 5 cycles, Duration: $t = 30min$
	Vibration (straight lead)	There shall be no evidence of deterioration.	Amplitude 0.75mm or acceleration 98m/s ² (whichever is the smaller severity), f: 10Hz to 500Hz. Three directions, 2h foreach direction, total 6h.
	Bump (straight lead)	There shall be no evidence of deterioration.	4 000 times, Acceleration: 390m/s ² , Pulse duration, 6ms
	Final measurement	$\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\tan\delta$: ≤ 0.003 (10kHz) IR: $\geq 50\%$ of the rated value	
9	climate sequence	Initial measurement	Capacitance, $\tan\delta$ (10kHz)
		Dry heat	+125°C, 16h

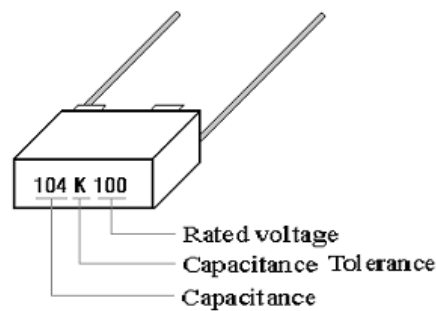
No.	Item	Performance	Test method GB/T 7332 (IEC60384-2)	
9	climate sequence (continue)	Damp heat, Cyclic	Test Db, Severity: b, the first cycle	
		Cold	-55°C, 2h	
		Low air pressure	There shall be no permanent break down, flashover or other harmful deformation when applying U_R at the last 1 minute.	15°C~35°C, 8.5kPa, 1h,
		Damp heat, cyclic other		Test Db, Severity b, the other cycles, Applying U_R for 1 minute after the test finished.
		Final measu rement	There shall be no evidence of deterioration and the marking shall be legible. $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\tan\delta$: ≤ 0.005 (10kHz) IR: $\geq 50\%$ of the rated value	
10	Damp heat steady state	There shall be no evidence of deterioration and the marking shall be legible. $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\tan\delta \leq 0.005$ (10kHz) IR: $\geq 50\%$ of the rated value	Temperature: 40°C $\pm 2^\circ\text{C}$ Humidity: $93 \pm 3\%$ RH Duration: 56 days	
11	Endurance	There shall be no evidence of deterioration and the marking shall be legible. $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\tan\delta$: ≤ 0.003 (10kHz) IR: $\geq 50\%$ of the rated value	Temperature: +85°C Voltage: $1.25 \times U_R$ Duration: 2 000h or Temperature: +125°C Voltage: $1.25 \times U_c$ ($U_c = 0.5U_R$) Duration: 2 000h	
12	Temperature characteristic	Measuring capacitance at test point b, d, f: Characteristic at lower category temperature -55°C: $-10\% \leq (C_b - C_d)/C_d \leq 0\%$ Characteristic at upper category temperature +125°C: $0\% \leq (C_f - C_d)/C_d \leq +18\%$ I.R. (test at point f): $U_R \leq 100\text{V}$: $\geq 15\text{M}\Omega$ ($C \leq 0.33\mu\text{F}$) $\geq 5\text{s}$ ($C > 0.33\mu\text{F}$) $U_R > 100\text{V}$: $\geq 30\text{M}\Omega$ ($C \leq 0.33\mu\text{F}$) $\geq 10\text{s}$ ($C > 0.33\mu\text{F}$)	Static method: The Capacitors should be kept at the following temperature in turn: a(20 \pm 2) °C, b(-55 \pm 3) °C, d(20 \pm 2) °C, f(+125 \pm 2) °C, g(20 \pm 2) °C	
13	Charging and discharging	$\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\tan\delta$: ≤ 0.003 (10kHz, $C \leq 1.0\mu\text{F}$) ≤ 0.002 (1kHz, $C > 1.0\mu\text{F}$) IR: $\geq 50\%$ of the rated value	Times: 10 000 Duration of charging: 0.5s Duration of discharging: 0.5s Charging voltage: rated voltage Charging resistance: $220/C_N(\Omega)$ Discharging resistance: $R = 10/C_N(\Omega)$ or 20Ω (whichever is the greater) C_N : rated capacitance (μF)	

■ **Quality ensuring test (before shipment):**

Inspection item (each batch)	Inspection level (GB/T 2828.1)	
	IL	AQL
Appearance inspection	S-4	1.5%
Dimensions		
Capacitance	II	0.65%
Tangent of the loss angle		
Dielectric strength		
Insulation resistance		
Solderability	S-3	2.5%

■ **Marking**

For example:



■ **Taping specification for box-type capacitor**

▲ Outline Drawing

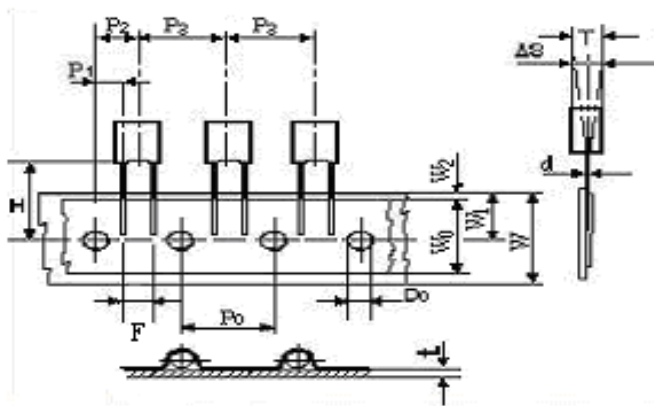


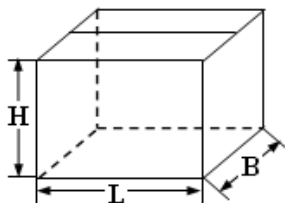
Fig 1

▲ Taping Dimensions(mm)

Technology index title	Code	Dimensions	
		P=5.0	Tolerance
Taping type	—	Fig 1	—
Part number Digit12-15	Ammo- pack	A201	
Taping pitch	P ₃	12.7	±1.0
Feed hole pitch	P ₀	12.7	±0.3
Center of wire	P ₁	3.85	±0.7
Center of body	P ₂	6.35	±1.3
Pitch of taping wire	F	5.0	+0.6 -0.1
Component alignment	△S	0	±2.0
Height of component from tape center	H	18.5	±0.5
Carrier tape width	W	18.0	+1.0 -0.5
Hold down tape width	W ₀	6min	—
Hole position	W ₁	9.0	±0.5
Hold down tape sition	W ₂	3max	—
Feed hole dia.	D ₀	4.0	±0.2
Tape thickness	t	0.7	±0.2

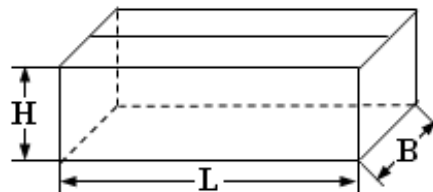
■ Packing box sizes(mm)(example)

1. Out packing box for bulk



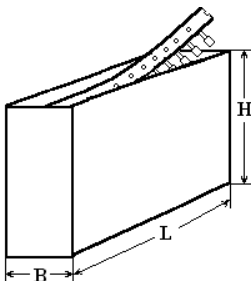
L: 375±5
B: 375±5
H: 265±5

2. Inner packing box for bulk



L: 355±3
B: 175±3
H: 118±3

3. Box sizes for Ammo-pack



L: 350±3
B: 50±3
H: 260±3

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Film Capacitors](#) category:

Click to view products by [FARATRONIC](#) manufacturer:

Other Similar products are found below :

[703-6G](#) [82EC1100DQ50K](#) [MMWAF150KME](#) [PCY2130F30153](#) [QXJ2E474KTPT](#) [QXL2B333KTPT](#) [QXM2G104K](#) [DPM16S56K-1F](#)
[EEC2G505HQA406](#) [B32234-.033@250V-K](#) [B81133-C1104-M3](#) [MTC355L1](#) [217-0716-001](#) [PA225L30](#) [CB182K0184J--](#) [KP1830-247/061-G](#)
[274ACF4400WA0J](#) [SCD105K122A3-22](#) [SCD205K122A3-24](#) [A521HP102M400C](#) [F601BL225K063CL60A](#) [PCX2339F65224](#)
[PCX2339F65334](#) [2222 368 55105](#) [2222 370 21683](#) [QXL2E473KTPT](#) [445450-1](#) [B32524Q6155J](#) [46KI3100JBM1K](#) [MKP 1839-215-633](#)
[MKP 1840-447-165](#) [MKP383510063JKP2T0](#) [WMC08P22](#) [46KN410000N1K](#) [46KR368050M1M](#) [ECQ-W4223KZ](#) [EEC2G805HQA415](#)
[PA103L30](#) [82DC3100DQ50J](#) [82DC4100AA60K](#) [82EC2150DQ50K](#) [WMF1D68](#) [PHE841ED6150MR17T0](#) [VEA105K50](#) [82EC2220DQ50J](#)
[F850AG102M300C](#) [MTC55L4](#) [MTC56L4](#) [730P205X9400](#) [PA104L30](#)