	N	IS	SI	ΕI
NESSRS				
SPECIFICATION				
METALLIZED POLYESTER FILM CAPACITORS				
TYPE N. N. C				
NISSEI ELECTRIC CO., LTD.				

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				SPEC No.	
SPECIFICATION	METALLIZED POL	YESTER FIL	X CAPACITORS	P S C 3	05000
1. SCOPE					
This specification				zed Polyester F	ʻilm
capacitor XMC type	(hereinafter cal	led capaci	tor).		
2. PARTS NUMBER CODE	SYSTEM				
M M C *	0 2 5 0	J 1	0 4 0	0 0 0 0	0 0 0
1) 2)	3	4	(5)	(6)	Ô
(DDesignation					
MMC : Straigh	t lead type				
	formed lead type				
MMCC:Cut le MMCV:Automat	ad type ic vertical inse	rsion type	(Formed lead	type)	
		ioron ofpo	(Formou Teuu	cype)	
@Internal use					
③Rated DC voltage 250,400,450,	630 , 1000 , 1250	V. DC			
④Tolerance on capa J:±5%,K:					
5 Capacitance Code					
Capacitance value	shall be given	by 3-digi	figure of	which unit used	is
expressed in pF.					
The first 2 digi the third digit	ts are significant to indicate the				
the significant f				eros to roriow	
©Model code (Intern	-				
REVISIONS			SIGNA	TURE	DATE
		DESIGNED	H. Jake	mama.	5.23 m
		CHECKED	K. Kan	ngam U. ngroe, wh	5.23:00
		APPROVED	J. OIKA	INF	\$.23 .00
			-		

NISSEI ELECTRIC CO., LTD.

					SPEC No.
SPECIFICATION	METALLIZED	POLYESTER	FILM	CAPACITORS	PSC305000

@Lead dimension / Packing mode

Designation		c o d e									
MMC	0000										
	code	Lead spacing	code	Lead spacing							
	0050	5.0mm	0150	15.0mm							
MMCF	0075	7.5mm	0175	17.5mm							
	0100	10.0mm	0225	22.5mm							
	0125	12.5mm	0275	27.5mm							
MMCC	0050										
	code	Style									
MMCV	0200	1,5,6									
	D200	2									
	D210	3									

3. RATING

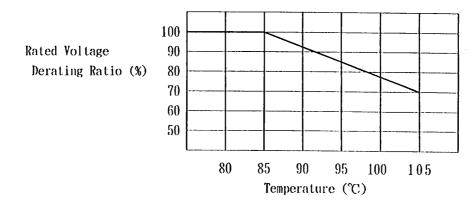
3.1 Operating Temperature Range: Operating temperature range to capacitors shall be $-40^{\circ}C \sim \pm 105^{\circ}C$ (Voltage derating in case of over 85°C.

3.1.1 Maximum Operating Temperature: Maximum value of capacitor's surface temperature (ambient temperature+self heating temperature rise+radiation and conduction heat from other

electric supply sources) at which capacitors shall be capable of applying continuously.

3.1.2 Minimum Operating Temperature : Minimum temperature range at which capacitors shall be capable of applying continuously.

3.2 Rated Voltage: Rated voltage is defined the voltage which shall be capable of applying to capacitors continuously in the operating temperature range. However, rated voltage shall be derated 1.5% at each 1°C in the range of +85°C~+105°C as shown in the Fig. below. The voltage : 250,400,450,630,1000,1250V.DC



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 SPECIFICATION

 METALLIZED POLYESTER FILM CAPACITOR

 P S C 3 0 5 0 0 0

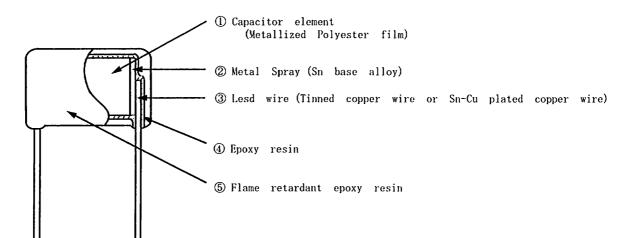
3.3 Capacitance range

250V. DC	0.0010 \sim 10.0 μ F	E-12
400V. DC	0.0010 ~ 4.7 μ F	E-12
450V. DC	0.0010 \sim 3.3 μ F	E-12
630V. DC	0.0010 \sim 2.2 μ F	E-12
1000V. DC	$0.0010 \sim 0.47 \ \mu F$	E-12
1250V. DC	0.0010 \sim 0.22 μ F	E-12

3.4 Tolerance on capacitance $\pm 5\%$, $\pm 10\%$

4. CONSTRUCTION OF CAPACITOR

Construction shall satisfy the provision of CF922 type of JIS C 5101-1:1998. Capacitor shall be non-inductive wound construction with dielectric of metallized polyester film, and wire lead shall be connected to capacitor element. An exterior coating shall be given dampproofing and insulation treatments by using a flame-retardant epoxy resin (Recognized UL94V-0).



5. DIMENSIONS Dimensions are specified in the attached sheet.

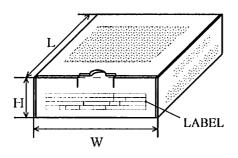
														SPEC	No.			4 /	,
	SPECIFICATI	ION	NE	TALLI	ZED	POLY	(ESTI	R I	<u>ilm</u>	CAI	PACI	TORS	-		P S C	- 230	50	00	
G. MAR	KING																		
	larking item The capacitors	s sha	all	be m	arked	cl	earl	y b	y a	n i	ndel	ible	way.						
1)	Nominal capa Shall be			ith	3-dig	it	code		Exam	ple	33	3,	104						
2)	Tolerance or J or K	n caj	pac i t	ance															
3)	Production d	late	code	: 	1	r	I					··	1						
	Month year	1	2	3 4	5	6	7	8	9	10	11	12							
	Odd year	Λ	в	C D	E	F	G	н	Φ	Θ	L	Σ							
	Even year	N	P (у R	s	Т	U	v	w	x	Y	Z							
4)	Rated DC vo Unit code			mitte	l		L	L			L		I						
5)	Manufacturer´ N I S	s Io	denti	ficat	ion														
6.2 X	arking positi	on			(Exam	ple)													
						05 IS		2 5 A	0										

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		SPEC_No
SPECIFICATION	METALLIZED POLYESTER FILM CAPACITOR	P S C 3 0 5 0 0 0

7. PACKING

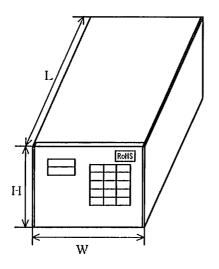
 Straight leads, formed leads and cutted leads type. The capacitors shall be put in poly-bag and packed in box marked with necessary information.

Inside packing case

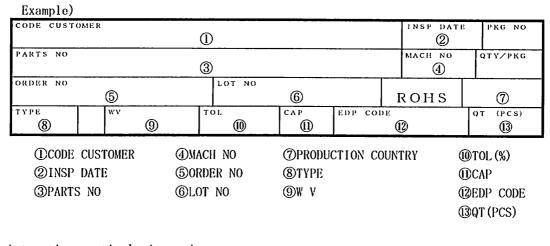


Dimension (mm)								
W	L	Н						
198	176	74						

External packing case



Dimension (mm)							
Inside packing case quantity	W	L	Н				
2	165	210	200				
4	210	310	"				
6	235	410	"				
8	310	410	"				
1 2	410	450	11				



2) Automatic vertical insertion type.

This is specified by the specification of automatic vertical insertion type.

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SPECIFICATION

SPEC No.

- 8. APPLICABLE STANDARD Unless otherwise specified, performance and a testing method shall comply with JIS C 5101-1:1998.
- 9. DISUSE OF 0.D.C. No ozone depleting chemicals are used at any stage of the manufacturing process.
- 1 O. DISUSE OF PBBO, PBDPO, PBDPE, PBBs This products does not contain PBBO, PBDPO, PBDPE, PBBs.
- 11. CERTAIN HAZARDOUS SUBSTANCES RESTRICTED BY RoHS DIRECTIVE In the product, materials to which certain hazardous substances restricted by RoHS Directive (2002/95/EC) (cadmium, hexavalent chromium, mercury, lead, PBB and PBDE) are added on purpose aren't used.
- 1 2. PRODUCTION COUNTRY
 - JAPAN
 - CHINA

Production country shall be distinguished in the colum \bigcirc .

Example) blank : JAPAN SH : CHINA

	<u> </u>			7 / 13		
				SPEC No.		
SPECIF	ICATION	METALLIZED POLYESTER FI	LM CAPACITOR	P S C 3 0 5 0 0 0		
13.1 TES The atm If	ST CONDITIONS e test and mo nosheric condit Ambient tem Relative hu there may bo e following li Ambient tem	e anydoubt on the result	ements and test	is as follows		
13.2 Ele	ectrical charac	eteristics test	·····			
l	tem	Characteristics	<u>Г</u>	est conditions		
Dielectric strength		No breakdown. However momentary breakdown is permissible.	Capacitors shall withstand 150% of rate voltage for 1 minute or 175% of rated D voltage for 1~5 seconds. (Charge or discharge current: 1A max)			
	Between termination and case	No breakdown.	Capacitors shall withstand 200% of rated voltage for $1\sim5$ seconds.			
Insulation resistance (Between terminations)		C ≤ 0.33 μ F 15,000MΩ or more C > 0.33 μ F 5,000Ω F or more	DC voltage specified below shall be a for 1 minute, after which measurement be made. Test voltage : 100V.DC			
Capacitance Tangent of loss angle		Within the nominal tolerance.	Capacitance shall be measured with 1kHz±20%, 5Vrms max.			
		0.008 or less				

SPEC No.

Item	Characteristics	Test conditions
Item Connection of element	Characteristics There shall be no intermittent contacts or open circuiting which would result in any needle deflection on the voltage detector.	As in the diagramed circuit measure the variation of terminal voltage for the series resistor(R) while a weak impact is made on the test capacitor to check the bonding strength of the terminals to the capacitor. C : Capacitor R : Series resistor
		R=150 Ω/C (Ω) μ F C=Nominal capacitance μ F
		① : Detector Internal impedance shall be large
		enough as compared with c.
		E :100mV (peak value) Max
		at 10k~1MHz

13.3 Mechanical characteristics test

I	tem	Characteristics	Test conditions		
	Tensile strength		Test capacitors shall be fixed, and unless otherwise specified, a tensile force of 10N shall be gradually applied to the axial of the leads, and then maintained for 30 ± 5 seconds.		
Termination strength	Bending strength	Without mechanical damage, such as break of terminal damage.	The bend test shall consist of hanging a weight of 5N to the end of the leads and then rotating the capacitors 90° in one direction, then to the starting point. This test shall be applied for 2.5 seconds per each time. At the same test speed, the capacitors shall be rotated 90° in alternating direction, then return to the starting point.		

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P S C 3 0 5 0 0 0

Item		Characteristics	Test conditions		
Vibration resistance		No electrical discontinuity such as opening, short-circuit of 0.5ms or more. Also, no abnormality on appearance after test.	Capacitors shall be capable of withstanding without malfunctioning such as short, open circuit or a damage to a vibration test in three directions against perpendicularity a a frequency range from 10Hz to 55Hz. The freqency shall be varied uniformiy from 10Hz to 55Hz at 1.5mm amplitude and back t 10Hz in approximately 1 minute intervals. This test shall be applied 2 hours per each direction, total 6 hours.		
Solderability		At least 3/4 of the circumferential face of termination up to immersed level shall be covered with new solder.	Capacitor's leads shall be immersed into Flux (10% rosin) for 5~10 seconds using sheltering board from radial test, then immersed into soldering bath at $230\pm5^{\circ}$ C for 2 ± 0.5 seconds up to the depth of to the depth of $1.5\sim2$ mm from the bottom of the body. Immersed and removing speed shall be 25 ± 2.5 mm/sec.		
	Appearance	No visible damage.	Using sheltering board from the radial heat,		
Dielectric strength to solderingDielectric strength (Between terminations)No breakdown.heat(Between terminations)Capacitance changeWithin ±3% of the initial value.		No breakdown.	capacitor's leads shall be immersed into soldering bath at 260 ± 5 °C for 10 ± 1 seconds up to the depth of $1.5\sim2$ mm from the bottom of the body.		
			The capacitors shall withstand 150% of rated DC voltage for 1 minute.		

13.4 Climatic test

	Item	Characteristics	Test conditions		
		Within $+0$, -7% of the initial value.	Measured at $-40\pm2^{\circ}$ C.		
Dry heat	Insulation resistance	$C \leq 0.33 \mu \mathrm{F}$ 900M Ω or more $C > 0.33 \mu \mathrm{F}$ 300 $\Omega \mathrm{F}$ or more	 Measured at 85±2℃.		
	Capacitance change	Within ± 5 , -2% of the initial value.			

SPEC No.

P S C 3 0 5 0 0 0

Item		Characteristics	Test conditions			
	Appearance	No visible damage.				
	Dielectric strength (Between terminations)	No breakdown.	The capacitor shall be put into the test chamber and left under the condition of			
Humidity resistance (steady state)	Insulation resistance	$C \leq 0.33 \mu \mathrm{F}$ 2,700 M Ω or more $C > 0.33 \mu \mathrm{F}$ 900 $\Omega \mathrm{F}$ or more	relative humidity $90 \sim 95\%$ at $40 \pm 2\%$ for 240 ± 8 hours. After the test, the capacitor shall be lef under the ordinally condition for 16 hours.			
	Tangent of loss angle	0.01 or less	The capacitors shall withstand 130% of rated DC voltage for 1 mimutes.			
	Capacitance change	Within $\pm 7\%$ of the initial value.				
	Appearance	No visible damage.				
	Dielectric strength (Between terminations)	No breakdown.	The rated voltage shall be continuously applied to the capacitor in the test chamber at a relative humidity of $90 \sim 95\%$ at $40 \pm 2\%$ for $500^{\pm 2}$ hours.			
Endurance test for humidity	Insulation resistance	$C \leq 0.33 \mu \text{ F}$ 2,700 M \Omega or more $C > 0.33 \mu \text{ F}$ 900 \Omega F or more	After the test, the capacitor shall be left under the ordinally condition for $1\sim 2$ hours. The capacitors shall withstand 130% of			
	Tangent of loss angle	0.01 or less	rated DC voltage for 1 minute. The load resistor in series with			
	Capacitance change	Within $\pm 7\%$ of the initial value.	the capacitor shall be $20\sim 1,000\Omega$.			
Endurance test for	Appearance Insulation resistance	No visible damage. $C \leq 0.33 \mu$ F 2,700 M Ω or more $C > 0.33 \mu$ F 900 Ω F or more	The voltage of 125% of rated voltage shall be continuously applied to the capacitor through a series of $20 \sim 1,000 \Omega$ per			
high temperature	Tangent of loss angle	0.01 or less	1 voltage in the test chamber at $85\pm3^{\circ}$ C for 1,000 ⁺⁴⁸ hours.			
	Capacitance change	Within $\pm 5\%$ of the initial value.				

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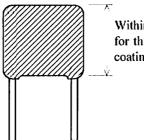
		SPEC No.
SPECIFICATION	METALLIZED POLYESTER FILM CAPACITOR	P S C 3 O 5 O O O

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- 1 4. SPECIAL STANDARD For rated voltage 1,000V and 1,250V, special standard described below shall be followed.
 - 14.1 Minimum thickness of the exterior coating

For rated voltage 1,000V and 1,250V, thickness of the exterior coating shall be more than 0.3mm.

The limit of the standard for the exterior coating of capacitors is shown below.



Within the limit of the standard for thickness of the exterior coating. (more than 0.3mm)

14.2 Damp - proof insulation test : Capacitors shall be put in 40°C & 90~95%RH for 8 hours and then lest at room temperature for 16 hours. After 5 cycles test, capaciotrs shall meet the requirements of the following test.

(1) Dielectric Strength
 Between terminations : Applied 1,000V.AC for 1 minute.
 After the test, there shall be no dielectric breakdown or other damage.

 Between termination and case : Applied 1,500V.AC for 1 minute.

After the test, there shall be no dielectric breakdown or other damage.

(2) Insulation resistance Between terminations : More than 2,000M Ω Between termination and case : More than 500M Ω

14.3 Dielectric Strength

Between terminations : Applied 1,000V.AC for 1 minute. After the test, there shall be no dielectric breakdown or other damage. Between termination and case : Applied 1,500V.AC for 1 minute.

After the test, there shall be no dielectric breakdown or other damage.

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SPEC No.

1 5. REGULATION IN USAGE

15.1 Voltage derating for frequency

15.1.1 A.C. maximum operating voltage in case of operating with commercial frequency (50 or 60Hz) is as shown in the table below. However, it can not be used for "Across-the-line" application.

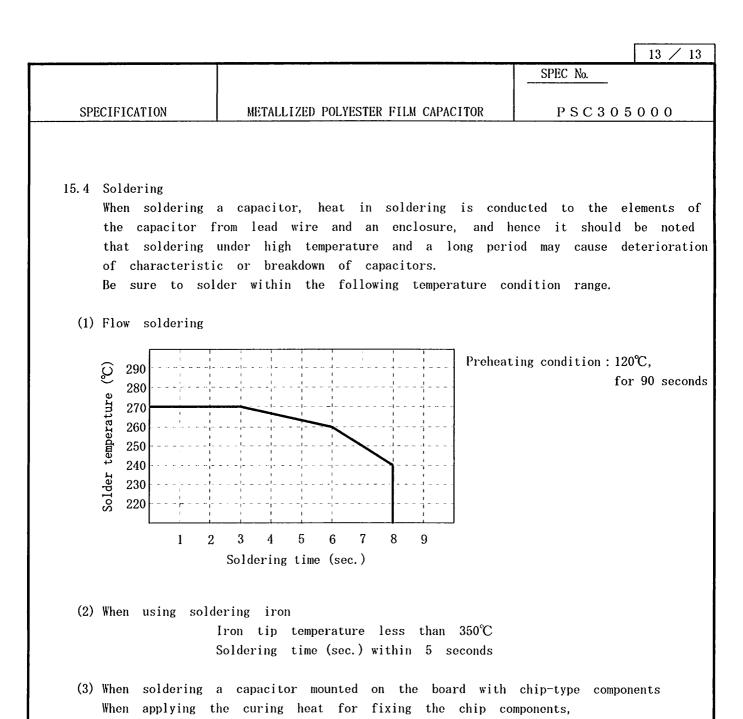
Rated voltage	A.C. maximum operating voltage
250V.DC	1 2 5 V r m s
400V.DC	200Vrms
450V.DC	200Vrms
630V.DC	2 5 0 V r m s
1000V.DC	4 0 0 V r m s
1250V.DC	500Vrms

- 15.1.2 When containing a portion of D.C.Bias, the crasy value (peak voltage V_{0-P}) waveform shall not exceed the rated voltage.
- 15.2 Permissible current to frequency

A permissible current is regilated by both a root-mean-square value current and a peak current. A root-mean-square value current is to be a permissible current value to frequency attached. A permissible peak current is determined by a permissible peak current value attached.

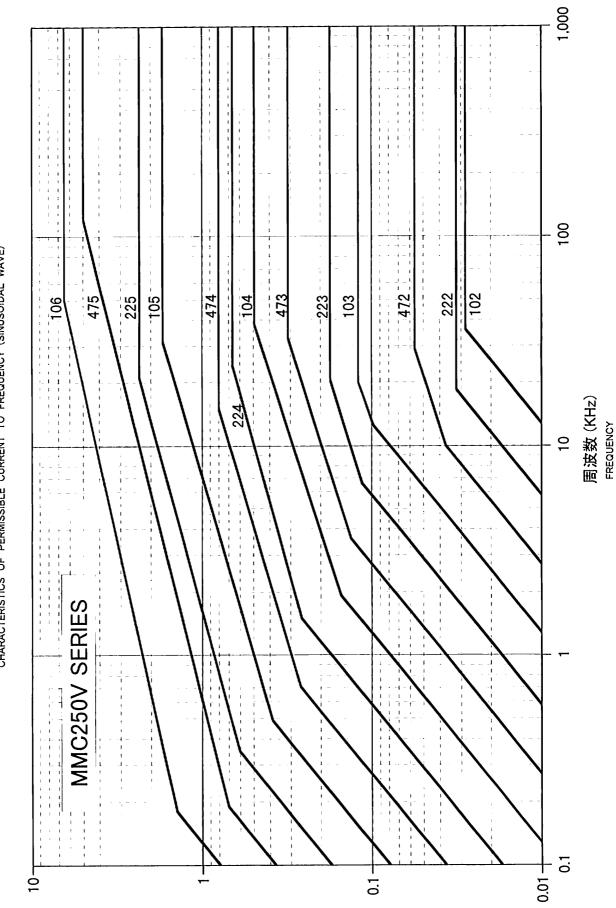
The values of continuous peak current in the allowable peak current shall be those of continuous current, and the values of single peak current shall be those of discontinuous current such as rush current in switching on or off. The highest number of times of single peak current shall be limited to 10,000 times. (In case of exceeding 10,000 times, please contact us.)

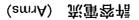
15.3 Permissible current to temperature When operating in the range of +85℃~+105℃ with waveform except direct current, the value for characteristic of permissible current to frequency shown in Fig. shall be derated 1.5% at each 1℃.



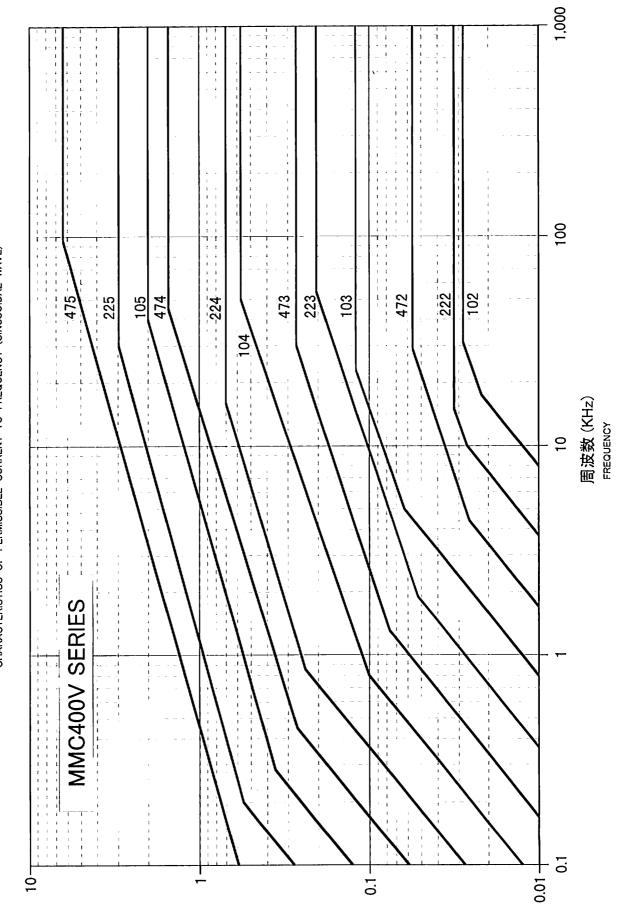
the duration for which a capacitor is exposed to heat shall be within the permissible time, which changes according to the ambient temperature of the capacitor as shown in the annex.

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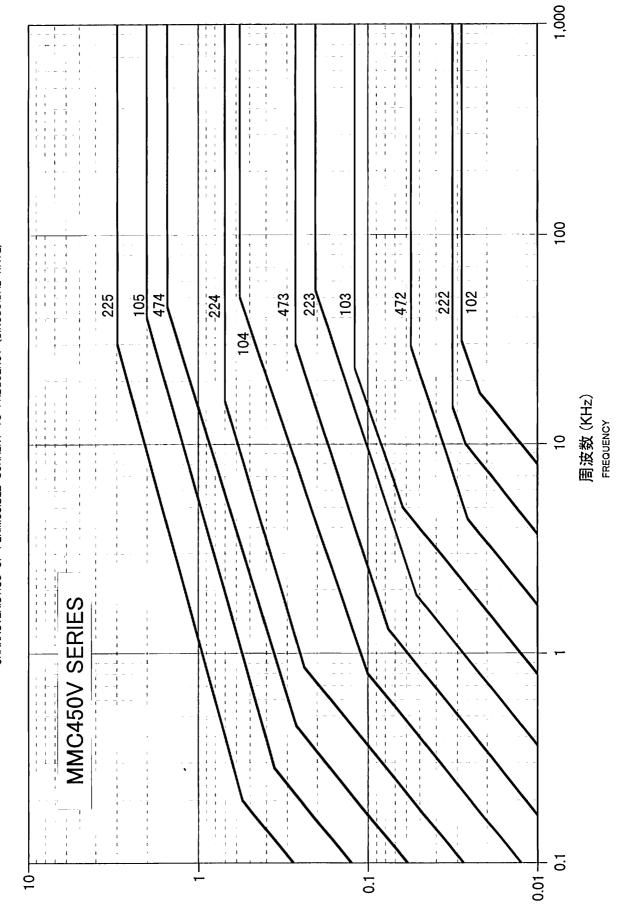


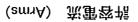


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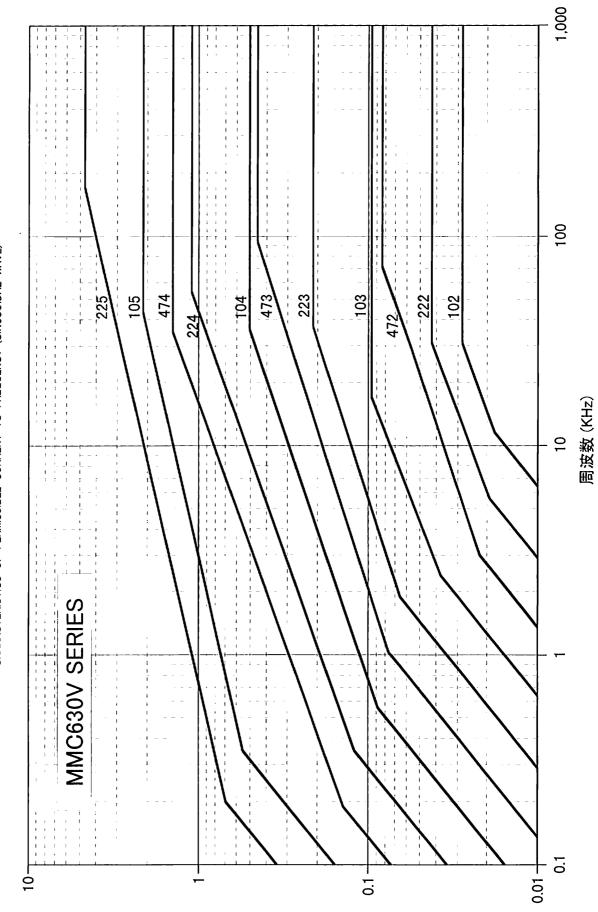


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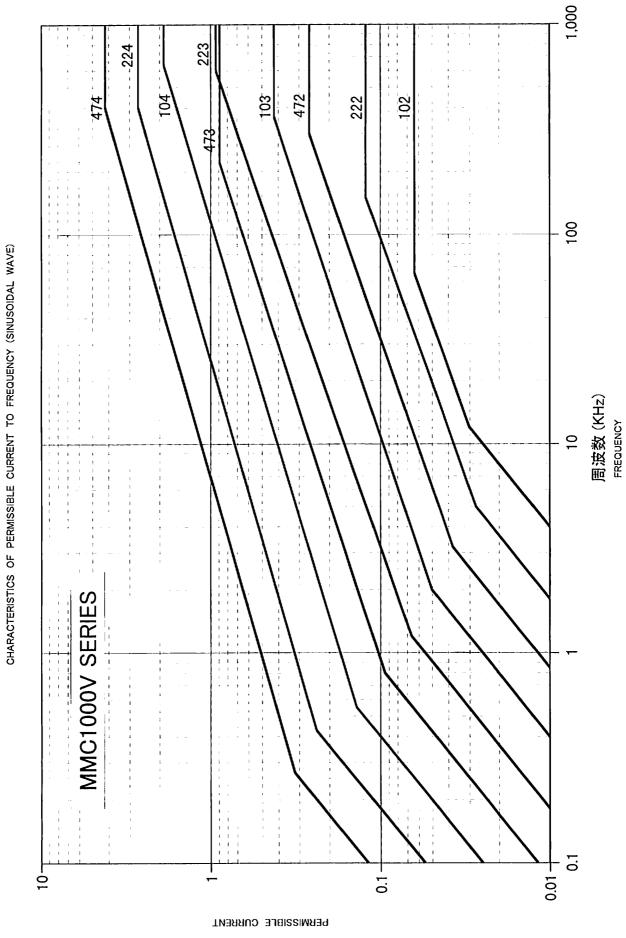








FREQUENCY



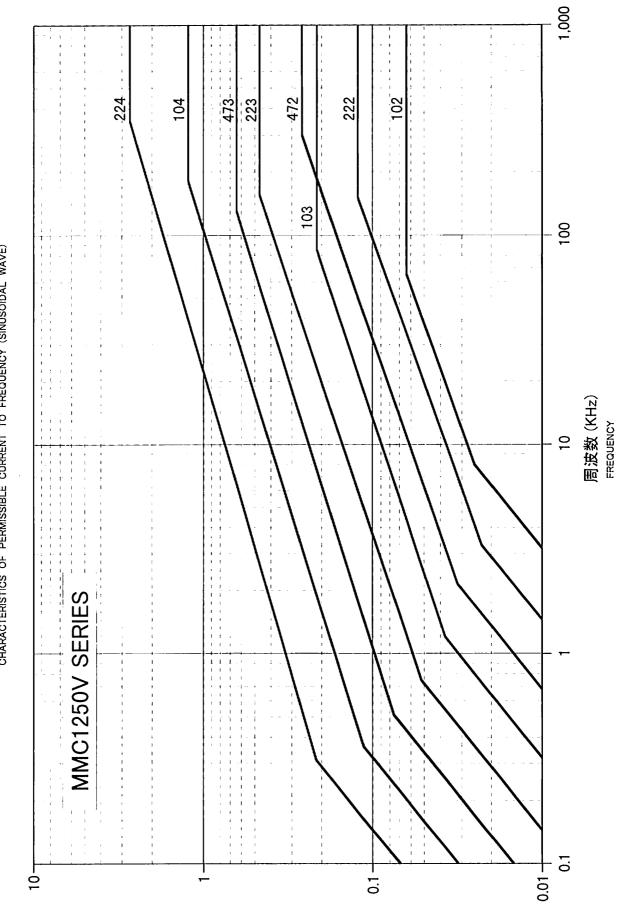
周波数に対する許容電流特性(正弦波)

.

(emrA) 流雷容視

(Arms) 流事容祎

РЕВМІЗЗІВLЕ СОВРЕИТ

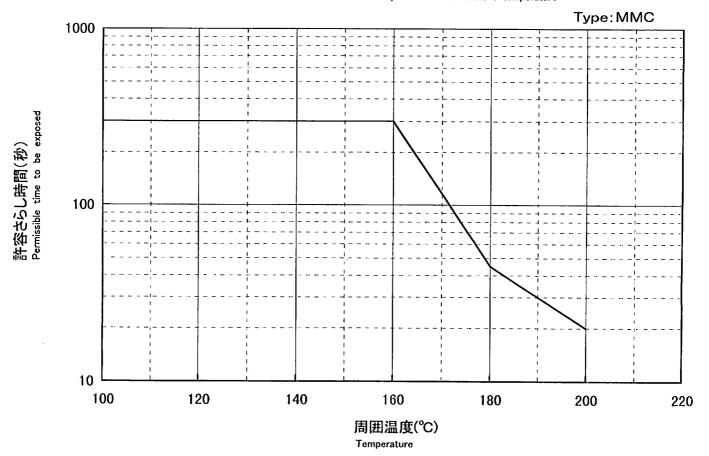


周波数に対する許容電流特性(正弦波)

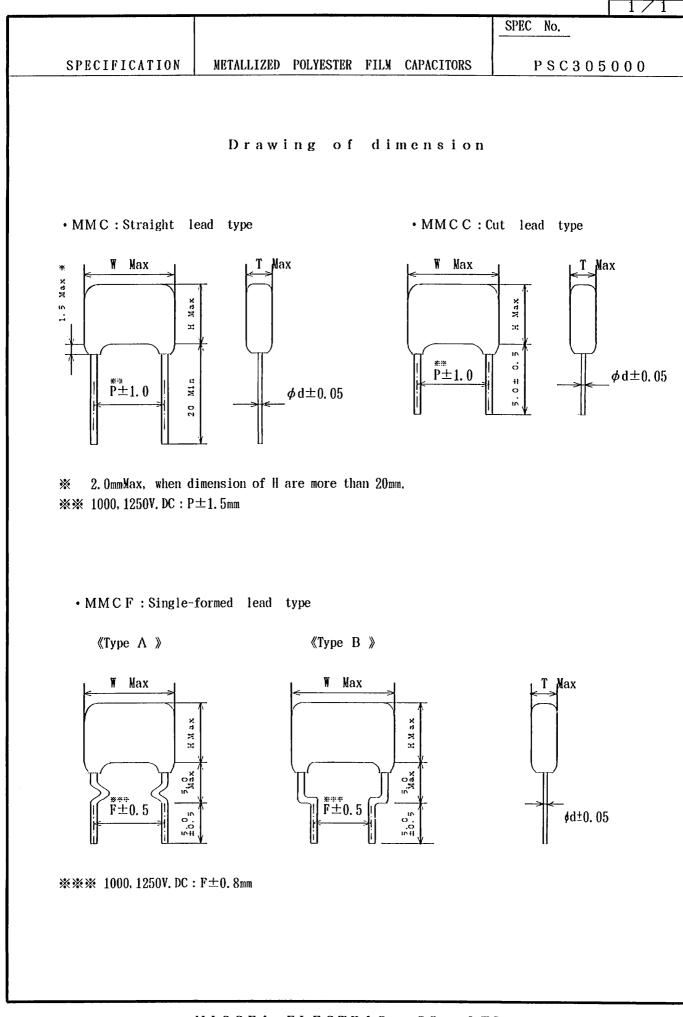
CHARACTERISTICS OF PERMISSIBLE CURRENT TO FREQUENCY (SINUSOIDAL WAVE)

許容ピーク電流値(パルス電流) Permissible Peak Current(Pulse Current)

♦Type MN		一ノ电ガ	元1但(ハハ	ハ电川	, Ferm	ssible r		ent(PU	se ourre	111/	
			IV. dc		50V. dc		V. dc		V. dc		V. dc
容量記号	静電容量	単発	連続	単発	連続	単発	連続	単発	連続	単発	連続
Capacitance	Capacitance	Single	Continual	Single		-	Continual	Single	Continual		Continual
Symbol	(μF)	(Ao-p)	(Ao-p)	(Ao-p)	(Ао-р)	(Ao-p)	(Ao-p)	(Ao-p)	(Ao-p)	(Ao-p)	(Ao-p)
102	0.0010	0.11	0.11	0.15	·	0.26	0.11	0.29	0.25	0.35	0.25
122	0.0012	0.10	0.10	0.18		0.31	0.13	0.35	0.30	0.42	0.30
152	0.0015	0.13	0.13	0.23	0.13	0.39	0.17	0.44	0.33	0.53	0.33
182	0.0018	0.15	0.15	0.27	0.15	0.47	0.20	0.53	0.40	0.64	0.40
222	0.0022	0.17	0.13	0.33	0.13	0.57	0.17	0.65	0.49	0.78	0.49
272	0.0027	0.20	0.16	0.41	0.16	0.70	0.21	0.79	0.60	0.96	0.60
332	0.0033	0.25	0.19	0.50	0.19	0.85	0.25	0.97	0.73	1.17	0.73
392	0.0039	0.29	0.18	0.59	0.18	1.01	0.27	1.15	0.87	1.38	0.87
472	0.0047	0.35		0.71	0.22	1.22	0.33	1.38	1.04	1.66	1.04
562	0.0056	0.42	0.26	0.84	0.26	1.45	0.39	1.65	1.24	1.98	1.24
682	0.0068	0.51	0.32	1.02	0.32	1.76	0.48	2.00	1.15	2.41	1.51
822	0.0082	0.62	0.39	1.23	0.39	2.12	0.57	2.41	1.39	1.94	0.69
103	0.010	0.75	0.47	1.50	0.47	1.92	0.38	2.94	1.69	2.37	0.85
123	0.012	0.90	0.50	1.80	0.56	2.30	0.46	3.53	2.03	2.84	1.01
153	0.015	1.13	0.63	2.25	0.63	2.88	0.57	4.41	2.54	3.56	1.27
183	0.018	1.35	0.67	2.70	0.67	3.46	0.68	5.29	3.04	4.27	1.52
223	0.022	1.65	0.68	3.30	0.81	4.22	0.84	6.47	3.72	5.21	1.86
273	0.027	2.03	0.84	4.05	1.00	5.18	1.03	5.14	2.03	4.70	1.46
333	0.033	2.48	0.86	4.95	1.22	6.34	1.25	6.29	2.48	5.74	1.78
393	0.039	2.93	1.01	4.21	0.86	7.49	1.48	7.43	2.93	6.79	2.11
473	0.047	3.53	1.22	5.08	1.03	9.02	1.79	8.95	3.53	8.18	2.54
563	0.056	4.20	1.46	6.05	1.23	5.66	1.12	10.67	4.20	7.73	2.72
683	0.068	5.10	1.29	7.34	1.50	6.87	1.36	12.95	5.10	9.38	3.30
823	0.082	6.15	1.56	8.86	1.80	8.28	1.64	15.62	6.15	11.32	3.98
104	0.10	7.50	1.90	10.80	2.20	10.10	2.00	19.05	7.50	13.80	4.85
124	0.12	9.00	2.28	7.38	1.44	12.12	2.40	16.56	5.76	16.56	5.82
154	0.15	11.25	2.85	9.23	1.80	15.15	3.00	20.70	7.20	20.70	7.28
184	0.18	9.81 11.99	2.16 2.64	<u>11.07</u> 13.53	2.16 2.64	18.18 22.22	<u>3.60</u> 4.40	24.84	8.64	24.84	8.73
224 274	0.22	14.72	3.24	16.61	3.24	15.93	<u>4.40</u> 3.24	30.36 37.26	10.56	30.36	10.67
334	0.27	17.99	and the second second second	20.30	3.24	19.47	3.24		12.96		
394	0.39	11.99	2.54	23.99	4.68	23.01	4.68	35.15 41.54	<u>11.72</u> 13.85		
474	0.39	14.34	3.06	28.95		23.01	5.64	50.06			
564	0.47	17.08	3.64	20.91	4.48	33.04	6.72	00.00	16.69		
684	0.68	20.74	4.42	25.16	5.44	40.12	8.16				
824	0.82	25.01	5.33	30.34	6.56	37.72	6.56				
904	0.90	27.45	5.85	00.04	0.00	01.12	0.50				
105	1.0	30.50	6.50	37.00	8.00	46.00	8.00				
125	1.0	36.60	7.80	44.40	9.60	55.20	9.60				
155	1.2	45.75	9.75	44.25	9.00	69.00	12.00				
185	1.8	33.30	7.20	53.10	9.00	82.80	14.40				
225	2.2	40.70	8.80	64.90	11.00	101.20	17.60				
275	2.2	49.95	10.80	79.65	13.50	101.20	17.00				
335	3.3	61.05	13.20	97.35	16.50						
395	3.9	72.15	15.60	115.05	19.50						
475	4.7	86.95	18.80	138.65	23.50						
565	5.6	81.20	16.80		20.00						
685	6.8	98.60	20.40								
825	8.2	118.90	24.60								
106	10.0	145.00									
100	10.0	1 10.00	00.00								



周囲温度による許容さらし時間 Permissible time to be exposed to the ambient temperature



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					SPEC No.
SPECIFICATION	METALLIZED	POLYESTER	FILM	CAPACITORS	P S C 3 0 5 0 0 0

MMC,	MMCF	, MM (C C – 2	50	V.DC

	Capacitance				Dim	ensio	ns	(mm)				
Parts No.	(µF)	W	Н	Т	Р	F		F		F		ø d
MMC1025001020000000	0.0010	10.3	7.0	4.0	7.5	5.0	Λ	7.5	٨			0.6
MMC[[]0250[]1220000[[[]]]	0.0012	"	"	"	"	"	"	"	"		_	"
MMC[]0250[]1520000[][]]	0.0015	"	"	"	"	"	"	"	"			"
NNC1025001820000000	0.0018	"	"	"	"	"	"	"	"			"
WWC1025002220000000	0.0022	"	"	"	"	"	"	"	"			"
XXCII025002720000	0.0027	"	"	"	"	"	"	"	"			"
MMC[]]0250[]3320000[][]]	0.0033	"	"	"	"	"	"	"	"			"
MMC[]]0250[]3920000[][]]	0.0039	"	"	"	"	"	"	"	"			"
MMC[]0250]4720000]]]]	0.0047	"	"	"	"	"	"	"	"			"
MMC[]]0250[]5620000[][]]	0.0056	"	"	"	"	"	"	"	"			"
MMC[]]0250[]6820000[[]]]	0.0068	"	"	"	"	"	"	"	"			"
MMC[]]0250[]8220000[][]]	0.0082	"	"	"	"	"	"	"	"			"
MMC[]]0250[]1030000[][]]	0.010	"	7.4	4.3	"	"	″	"	"			"
MMC[]0250[]1230000[][]]	0.012	"	"	4.4	"	"	"	"	"			"
MMC[]0250]1530000][]]	0.015	"	7.5	"	"	"	"	"	"			"
MNC10250018300000000	0.018	"	"	"	"	"	"	"	"			"
NNC10250022300000000	0. 022	"	"	"	"	"	"	"	"			"
NNC1025002730000000	0. 027	"	"	"	"	"	"	"	"			"
MNC1025003330000000	0. 033	"	"	"	"	"	″	"	"			"
MNC1025003930000000	0. 039	"	"	4.5	"	"	″	"	"			"
MMC=10250=4730000	0.047	"	7.9	4.4	"	"	"	"	"			"
MNC1025005630000000	0.056	"	"	4.8	"	"	"	"	"			"
MNC[]0250[6830000[]]]	0.068	"	7.5	4.5	"	"	/	"	"			"
NNC[]0250[8230000[]]]	0.082	"	8.0	4.8	"	"	"	"	"			"
NNC[]]0250[]1040000[]]]	0. 10	"	8.4	5.8	"	"	"	"	″			"
MMC[]]0250[]1240000]]]]	0. 12	"	9.0	6.0	"	"	″	"	"			"
MNC10250015400000000	0. 15	"	10.8	"	"	"	"	"	"			"
MNC[]]0250[]1840000[][]]	0. 18	12.5	10.0	5.0	10.0	"	В	"	"	10.0	Α	"
MMC0250[2240000]	0. 22	"	10.3	5.5	"	"	"	"	"	"	"	"
MMC[]0250[]2740000][]]	0. 27	"	11.0	6.0	"	"	"	"	"	"	"	"
MNC110250[3340000]111	0. 33	"	11.5	6.5	"	"	"	"	"	"	"	"
NNC110250[]3940000]11]	0. 39	18.0	12.0	4.9	15.0	"	"	"	В	15.0	"	"
MMC[]0250[4740000]]]]	0. 47	"	12.5	5.3	"	"	"	"	"	"	"	"
XXC1025005640000000	0.56	"	13.0	5.5	"	"	"	"	"	"	"	"
MMC[]]0250[]6840000]]]]]	0.68	"	13.5	6.0	"	"	"	"	"	"	"	0.8
MMC[]]0250[]8240000[][]]	0. 82	"	14.5	6.5	"	"	"	"	"	"	"	"
MMC[[]0250[]9040000[[]]]	0, 90	"	"	7.0	"	"	"	"	"	"	"	"

NISSEI ELECTRIC CO., LTD.

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					SPEC No.
SPECIFICATION	NETALLIZED	POLYESTER	FILM	CAPACITORS	P S C 3 0 5 0 0 0

	MMC,	MMC F	,	MMCC-	2	5	0 V	1. D C
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Parts No.	Capacitance				Dim	nensio	ıs	(mm)				
	(µF)	W	H	Т	Р	F		F		F		ø d
MMC10250010500000000	1. 0	18.0	15.0	7.4	15.0	5.0	В	7.5	В	15.0	Α	0.8
MMC[]]0250[]1250000[][]]	1. 2	"	15.9	8.0	"	"	"	"	"	"	"	"
MMC00250015500000000	1. 5	"	16.8	9.0	"			"	"	"	"	"
MMC[]0250]1850000[]]]	1. 8	25.0	15.5	7.5	22.5					22.5	"	"
MMC10250022500000000	2. 2	"	16.3	8.5	"					"	"	"
MMC1025002750000E000	2. 7	"	17.1	9.4	"					"	"	"
MMC110250133500001111	3. 3	"	18.0	10.3	"					"	"	"
MMC10250039500000000	3. 9	"	20.5	11.0	"					"	"	"
MMC10250047500000000	4. 7	"	21.5	12.0	"					"	"	"
MMC110250[]5650000[]11]	5, 6	30.0	21.0	11.8	27.5					27.5	"	"
MNC110250168500001111	6. 8	"	22.4	13.0	"					"	"	"
MNC[]]0250[]8250000[]]]]	8. 2	"	23.5	14.3	"					"	"	"
NXC10250010600000000	10.0	"	25.8	15.9	"					"	"	"

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					SPEC No.
SPECIFICATION	NETALLIZED	POLYESTER	FILM	CAPACITORS	P S C 3 0 5 0 0 0

MMC, MMCF, N	1MCC - 400V.DC
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	Capaci tance				Dim	ensio	ns	(mm)				
Parts No.	(μF)	W	Н	Т	Р	F		F		F		ø d
MMC[]]0400[]1020000[][]]	0.0010	10.3	7.0	4.0	7.5	5.0	٨	7.5	٨			0.6
MNC[]0400[]1220000[][]]	0.0012	"	"	"	"	"	"	"	"			"
MMC[]]0400[]1520000[][]]	0.0015	"	"	"	"	"	"	"	"			"
MNC[]]0400[]1820000[][]]	0.0018	"	"	"	"	"	"	"	"			"
WWC 0400 2220000	0.0022	"	"	"	"	"	"	"	"			"
MMC[]]0400[]2720000[][]]	0.0027	"	"	"	"	"	"	"	"			"
MMC[]]0400[]3320000[[[]]]	0.0033	"	"	"	"	"	"	"	"			"
MMC[]]0400[]3920000[][]]	0.0039	"	"	"	"	"	"	"	"			"
MMC_040004720000	0.0047	"	"	"	"	"	"	"	"			"
MMC[]]0400[]5620000[[]]]	0.0056	"	"	"	"	"	"	"	"			"
MMC[]]0400[]6820000[][]]	0.0068	"	"	"	"	"	"	"	"			"
MMC10400082200000000	0.0082	"	"	"	"	"	"	"	"			"
MMC[]]0400]1030000[[]]]	0.010	"	7.6	4.4	"	"	"	"	"			"
MMC_0400012300000000	0.012	"	7.8	"	"	"	"	"	"			"
MMC 0400 1530000	0.015	"	"	"	"	"	"	"	"			"
MNC=0400=1830000=0=0	0.018	"	7.6	"	"	"	"	"	"			"
MNC10400022300000000	0.022	"	7.9	4.5	"	"	"	"	"			"
MNC1040002730000000	0. 027	"	8.2	4.8	"	"	"	"	"			"
NNC10400033300000000	0.033	"	9.0	5.5	"	"	"	"	"			"
MMC[]]0400[]3930000[]][]	0.039	12.5	8.0	4.9	10.0	"	В	"	"	10.0	Α	"
NNC110400147300001110	0.047	"	8.3	5.2	"	"	"	"	"	"	"	"
NNC===0400=5630000=====	0.056	"	10.0	"	"	"	"	"	"	"	"	"
MMC===0400==6830000======	0.068	"	10.5	5.5	"	"	"	"	"	"	"	"
MMC0400[8230000]	0.082	"	11.0	6.0	"	"	"	"	"	"	"	"
MMC[]]0400[]1040000][]]]	0. 10	"	12.0	"	"	"	"	"	"	"	"	"
MXCII0400012400000000	0. 12	18.0	10.2	5.5	15.0	"	"	"	В	15.0	"	"
MMC[]]0400[]1540000[][]]	0. 15	"	12.0	"	"	"	"	"	"	"	"	"
MMCT0400018400000000	0. 18	"	12.5	6.0	"	"	"	"	"	"	"	"
MMC[]]0400[]2240000[]]]]	0. 22	"	13.0	6.5	"	"	"	"	"	"	"	"
MMC[]0400[]2740000[]]]	0. 27	"	13.5	7.0	"	"	"	"	"	"	"	0.8
MXCII0400[]3340000[[[]]]	0. 33	"	14.0	7.7	"	"	"	"	"	"	"	"
MMC[]0400]3940000[]]]	0. 39	"	15.0	8.5	"	"	"	"	"	"	"	"
MMC[]]0400]4740000[]]]	0. 47	"	16.5	"	"	"	"	"	"	"	"	"
MNC1040035640000	0.56	25.0	15.3	7.5	22.5					22.5	"	"
MMC[]]0400]6840000[]]]	0. 68	"	16.0	8.2	"					"	"	"
MMC[]]0400[]8240000[][]]	0. 82	"	16.8	9.0	"					"	"	"

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					SPEC No.
SPECIFICATION	METALLIZED	POLYESTER	FILM	CAPACITORS	P S C 3 0 5 0 0 0

MMC, MMCF, MMCC-400V.DC

Parts No.	Capacitance				Dim	ensions	(mm)			
raits no	(μF)	W	Η	Т	Р	F	F	F		ø d
MMC[]]0400[]1050000[]]]	1.0	25.0	17.7	10.0	22.5			22.5	Α	0.8
MMC[]]0400[]1250000[]]]	1.2	"	18.8	11.0	"			"	"	"
MMC[]]0400[]1550000[][]]	1.5	30. 0	19.5	10.0	27.5			27.5	"	"
MMC[]]0400]1850000[]]]	1.8	"	18.7	9.3	"			"	"	"
MMC[]]0400[]2250000[][]]]	2.2	"	19.8	10.4	"			"	"	"
MMC1040002750000000	2.7	"	21.0	11.6	"			"	"	"
MMC[]]0400[]3350000[[[]]]	3.3	"	22.3	13.0	"			"	"	"
MMC10400039500000000	3.9	"	23.6	14.2	"			"	"	"
MMC10400047500000000	4.7	"	25.2	15.8	"			"	"	"

					SPEC No.
SPECIFICATION	METALLIZED	POLYESTER	FILM	CAPACITORS	P S C 3 0 5 0 0 0

MMC,	MMCF	,	MMCC-4	1	5	0	V.	D	С

MMC, MMCF, M	Capacitance				Dim	ensio	ns	(mm)				
Parts No.	(μF)	W	Н	Т	Р	F	_	F		F		ø d
MNC1045001020000000	0.0010	10.3	7.0	4.0	7.5	5.0	Α	7.5	٨			0.6
MMC1045001220000000	0.0012	"	"	"	"	"	"	"	"			"
NMC[]0450]1520000[]]]	0.0015	"	"	"	"	"	"	"	"			"
MMC10450018200000000	0.0018	"	"	"	"	"	"	"	"			"
MMC[]0450]2220000[[]]]	0.0022	"	"	"	"	"	"	"	"			"
MMC10450027200000000	0.0027	"	"	"	"	"	"	"	"			"
MMC10450033200000000	0.0033	"	"	"	"	"	"	"	"			"
MMC[]0450[]3920000[][]]	0.0039	"	"	"	"	"	"	"	"			"
MMC[]0450[]4720000[]]]	0.0047	"	"	"	"	."	"	"	"			"
MMC[]]0450[]5620000]][]]	0.0056	"	"	"	"	"	"	"	"			"
NNC10450068200000000	0.0068	"	"	"	"	"	"	"	"			"
MNC1045008220000111	0.0082	"	"	"	"	"	"	"	"			"
MNC10450010300000000	0. 010	"	7.6	4.4	"	"	"	"	"			"
MNC10450012300000000	0.012	"	7.8	"	"	"	"	"	"			"
MNC1045011530000	0.015	"	"	"	"	"	"	"	"			"
NNC[]]0450[]1830000[][]]	0. 018	"	7.6	"	"	"	"	"	"			"
NNC10450022300000000	0. 022	"	7.9	4.5	"	"	"	"	"			"
MNC1045002730000000	0. 027	"	8.2	4.8	"	"	"	"	"			"
MNC1045003330000000	0. 033	"	9.0	5.5	"	"	"	"	"			"
NMC1045003930000000	0. 039	12.5	8.0	4.9	10.0	"	В	"	"	10.0	٨	"
MNC10450047300000000	0.047	"	8.3	5.2	"	"	"	"	"	"	"	"
MMC0045005630000000	0.056	"	10.0	"	"	"	"	"	"	"	"	"
MMC[]0450]6830000[]]]	0.068	"	10.5	5.5	"	"	"	"	"	"	"	"
MMC0045008230000000	0.082	"	11.0	6.0	"	"	"	"	"	"	"	"
MMC1045001040000000	0. 10	"	12.0	"	"		″	"	"	"	"	"
MMCDD0450012400000000	0. 12	18.0	10.2	5.5	15.0	"	″	"	В	"	"	"
MMC[]]0450]1540000[]]]	0. 15	"	12.0	"	"	"	″	"	″	"	"	"
MMC1045001840000000	0. 18	"	12.5	6.0	"	"	"	"	"	15.0	"	"
NNC10450022400000000	0. 22	"	13.0	6.5	"	"	"	"	"	"	"	"
MMC[]]0450[]2740000[]][]	0. 27	"	13.5	7.0	"	"	"	"	"	"	"	0.8
MMC[]]0450[]3340000[][]]	0. 33	"	14.0	7.7	"	"	"	"	"	"	"	"
MNC1045003940000000	0. 39	"	15.0	8.5	"	"	"	"	"	"	"	"
NNC10450047400000000	0. 47	"	16.5	"	"	"	"	"	"	"	"	"
NNC1045005640000000	0.56	25.0	15.3	7.5	22.5					22.5	"	"
MMC1045006840000000	0.68	"	16.0	8.2	"					"	"	"
MMC_045008240000000	0. 82	"	16.8	9.0	"					"	"	"

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					SPEC No.
SPECIFICATION	NETALLIZED	POLYESTER	FILM	CAPACITORS	P S C 3 O 5 O O O

MMC , MMCF , MMCC-450V.DC

Parts No.	Capaci tance				Dim	ensions	(mm)			
raits nu	(µF)	W	Н	T	Р	F	F	F		ø d
MMC[]]0450[]1050000[][]]	1.0	25.0	17.7	10.0	22.5			22.5	Α	0.8
MNC[]]0450[]1250000[][]]	1.2	"	18.8	11.0	"			"	"	"
NNC10450015500000000	1.5	30.0	19.5	10.0	27.5			27.5	"	"
MNC10450018500000000	1.8	"	21.5	11.0	"			"	″	"
NNC10450022500000000	2.2	"	23.0	12.5	"			"	″	"
MNC1045002750000000	2.7	"	25.0	14.0	"			"	"	"
MMC10450033500000000	3.3	"	26.5	15.5	"				"	"

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					SPEC No.
SPECIFICATION	METALLIZED	POLYESTER	FILM	CAPACITORS	PSC305000

MMC,	MMCF	,	MMCC-0	6	3	0	V.	D	С

MMC, MMCF, M	Capacitance				Dim	ensio	ns	(mm)	···			
Parts No.	(μF)	W	Н	Т	Р	F		F		F		ø d
MMC[]]0630]]1020000[[]]]	0.0010	10.3	7.5	4.5	7.5	5.0	Α	7.5	٨			0.6
MMC[]]0630]1220000[[]]]	0. 0012	"	"	"	"	"	"	"	"			"
MMC[]]0630]1520000[]]]	0.0015	"	"	"	"	"	"	"	"			"
MMC[]]0630]]1820000[[]]]	0.0018	"	"	"	"	"	"	"	"			"
MMC[]0630]2220000[[]]	0.0022	"	"	"	"	"	″	"	"			"
MMC[]0630]2720000[]]]	0. 0027	"	"	"	"	"	"	"	"			"
MMC[]0630[]3320000[]]]	0. 0033	"	"	"	"	"	"	"	"			"
MMC[]]0630[]3920000[][]]	0.0039	"	"	"	"	"	"	"	"			"
MMC10630047200000000	0.0047	"	"	"	"	"	″	"	"			"
NMC110630[]5620000[[1]]	0. 0056	"	"	"	"	"	"	"	″			"
NNC110630[[6820000[X110]	0.0068	"	"	"	"	"	"	"	″			"
NNC10630082200000000	0.0082	"	"	"	"	"	"	"	"			"
MMC10630010300000000	0.010	12.5	"	4.0	10.0	"	В	"	"	10.0	Α	"
MMC106301230000000	0.012	"	"	4.5	"	"	"	"	″	"	"	"
NNC=0630=1530000	0.015	"	8.2	5.0	"	"	"	"	"	"	"	"
NNC1063011830000000	0.018	"	10.0	"	"	"	"	"	"	"	"	"
MMC10630022300000000	0. 022	"	10.5	5.3	"	"	"	"	"	"	"	"
NNC10630027300000000	0. 027	"	"	5.5	"	"	"	"	"	"	"	"
NMC10630033300000000	0. 033	"	11.0	6.0	"	"	"	"	"	"	"	"
MNC110630[3930000]1]]	0.039	"	12.5	"	"	"	"	"	"	"	"	"
NMC[]0630[]4730000[][]]	0.047	"	13.0	6.5	"	"	"	"	"	"	"	"
NNC10630056300000000	0.056	18.0	10.5	5.5	15.0	"	"	"	В	15.0	"	"
MNC10630068300000000	0.068	"	11.0	6.0	"	"	"	"	"	"	"	"
NMC10630082300000000	0.082	"	11.5	6.5	"	"	"	"	"		"	"
MNC10630010400000000	0.10	"	13.0	"	"	"	"	"	"	"	"	"
MNC10630012400000000	0. 12	"	13.5	7.0	"	"	″	"	"	"	"	0.8
MMC10630015400000000	0. 15	"	14.5	8.0	"	"	"	"	"	"	"	"
MMC_0630018400000000	0. 18	"	16.0	"	"	"	"	"	"	"	"	"
MMC[]]0630[]2240000[][]]	0. 22	"	16.5	9.0	"	"	"	"	"	"	"	"
MMC0063002740000000	0. 27	25.0	16.8	7.5	22.5					22.5	"	"
MMC[]]0630[]3340000][]]]	0. 33	"	17.5	8.0	"					"	"	"
MMC[]]0630[]3940000[][]]	0.39	"	18.0	8.7	"					"	"	"
XXCI0630047400000000	0. 47	"	19.0	9.5	"					"	"	"
MMC[]]0630[]5640000[[]]]	0.56	"	20.0	10.5	"					"	"	"
MMC[]]0630[]6840000[][]]	0.68	"	21.5	11.5	"					"	"	"
MMC[]]0630[]8240000[][]]	0. 82	30.0	20.0	10.5	27.5					27.5	"	"

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SPECIFICATION	NETALLIZED	POLYESTER	FILM	CAPACITORS	P S C 3 O 5 O O O

MMC , MMCF , MMCC-630V.DC

Parts No.	Capacitance				Dime	ensions	(mm)			
raits nu	(µF)	W	H	Т	Р	F	F	F		ø d
MMC[]0630[]1050000[[]]	1.0	30.0	21.0	11.5	27.5			27.5	Α	0.8
MMC[]0630[1250000]]]	1.2	"	22.0	12.5	"			"	"	"
MMC11063011550000	1.5	"	24.0	14.3	"			"	"	"
MMC[]0630[]1850000[]]]	1.8	"	25.5	15.5	"			"	"	"
MMC 0630 2250000	2.2	"	27.3	17.5	"			"	"	"

SPEC No.

	Capacitance			Dimens	ions ((mm)		
Parts No.	(μF)	W	Н	Т	Р	F		φd
MMC0010000102000000000	0.0010	15.5	11.0	6.0	12.5	10.0	Λ	0.6
MMC001000012200000000	0.0012	"	"	"	"	"	"	"
MMCDD1000D1520000DDDD	0. 0015	"	"	"	"	"	"	"
MMCDD1000D1820000DDDD	0.0018	"	"	"	"	"	"	, ,,
MMCDD1000D2220000DDDD	0.0022	"	11.5	"	"	"	"	,,,
MMCDD1000D2720000DDDD	0.0027	"	12.0	6.5	"	"	"	"
MMCDD1000D3320000DDDD	0.0033	"	11.5	6.0	"	"	"	"
MMCDD1000D3920000DDDD	0.0039	"	12.0	6.5	"	"	"	"
MMCDD1000D4720000DDD	0. 0047	"	12.5	7.0	"	"	11	"
MMCDD1000D5620000DDD	0.0056	"	13.0	7.5	"	"	11	"
MMCDD1000D6820000DDDD	0.0068	"	11.0	6.0	"	"	"	"
MMCDD1000082200000000	0.0082	"	"	"	"	12.5	"	11
MMCDD1000D1030000DDDD	0.010	"	"	"	"	"	"	"
MMCDD1000D1230000DDDD	0.012	"	12.0	"	"	"	"	"
MMCDD1000D1530000DDDD	0.015	"	12.5	7.0	"	"	"	"
MMC001000018300000000	0.018	"	13.0	7.5	"	"	"	0.8
MMCDD1000D2230000DDDD	0.022	"	15.5	"	"	"	"	"
MMCDD1000D2730000DDDD	0.027	21.0	13.0	6.0	17.5	"	В	"
MMCDD1000D3330000DDDD	0.033	"	14.0	6.5))	"	"	11
MMCDD1000D3930000DDDD	0.039	"	14.5	7.0))	11	"	"
MMCDD1000047300000000	0.047	"	15.5	7.5	"	"	"	"
MMCDD1000D5630000DDDD	0.056	"	17.0	"	"	"	"	"
MMCDD1000D6830000DDDD	0.068	"	18.0	8.5	"	"	"	"
MMCDD1000D8230000DDDD	0.082	"	18.5	9.0	"	"	"	"
MMC001000010400000000	0.10	11	20.0	10.0	"	"	"	"
MMCDD1000D1240000DDDD	0.12	26.0	18.5	9.0	22.5	17.5	"	"
MMCDD1000D1540000DDDD	0.15	"	20.0	10.0	"	"	"	"
MMC001000018400000000	0.18		22.0	10.5	11	"	"	11
MMC001000022400000000	0. 22	"	23.0	12.0	"	"	"	"
MMC001000027400000000	0. 27	11	25.0	13.5	11	"	"	11
MMCDD1000D3340000DDDD	0.33	31.0	24.0	13.0	27.5	22.5	"	"
MMCDD1000D3940000DDDD	0.39	"	26.0	14.0		"	"	11
MMCDD1000D4740000DDDD	0. 47	,,	27.5	15.5	,,	11	"))

MMC, MMCF, MMCC-1000V. DC

171

SPECIFICATION	METALLIZED	POLYESTER	FILM	CAPACITORS	P S C 3 0 5 0 0 0

	MMC,	MMC F	,	MMCC-	1	2	5	0 V	/. E) C
--	------	-------	---	-------	---	---	---	-----	------	-----

MMC, MMCF, M	Capacitance Capacitance			imens	ions	(mm)		
Parts No.	(μF)	W	Н	Т	Р	F		ø d
MMCD01250010200000000	0.0010	15.5	11.0	6.0	12.5	10.0	٨	0.6
MNC11250112200001111	0.0012	"	"	"	"	"	"	"
MNC11250115200001111	0.0015	"	"	"	"	"	"	"
MNC112501820000110	0.0018	"	"	"	"	"	"	"
MNC112502220000111	0. 0022	"	11.5	"	"	"	"	"
MNC112502720000	0. 0027	"	12.0	6.5	"	"	"	"
MNC11250133200001111	0. 0033	"	11.5	6.0	"	"	"	"
MMC[]]1250[]3920000[[]]]	0. 0039	"	12.0	6.5	"	"	"	"
MMC_1250_4720000	0.0047	"	12.5	7.0	"	"	"	"
MNC[]1250[]5620000[][]]	0.0056	"	13.0	7.5	"	"	"	"
NXC001250068200000000	0. 0068	"	15.0	"	"	"	"	"
MMCDD1250082200000000	0.0082	21.0	12.0	5.0	17.5	12.5	В	"
MMCDD1250010300000000	0. 010	"	12.5	"	"	"	"	"
MMC001250012300000000	0.012	"	13.0	5.5	"	"	"	"
MMC 1250 1530000 100	0.015	"	13.5	6.0	"	"	"	"
MMC101250018300000000	0.018	"	14.5	6.5	"	"	"	0.8
MMC 1250 2230000	0. 022	"	15.0	7.0	"	"	"	"
MMC11250127300001111	0. 027	26.0	15.5	6.0	22.5	17.5	"	"
MMC1125033300001101	0. 033	"	16.0	6.5	"	"	"	"
MNC112503930000111	0. 039	"	16.5	7.0	"	"	"	"
MNC11250147300001111	0.047	"	17.0	8.0	"	"	"	"
MNC=1250[5630000]	0. 056	31.0	"	7.5	27.5	22.5	"	"
MNC11250168300001111	0.068	"	17.5	8.0	"	"	"	"
MNCT11250[8230000[]]]	0. 082	"	18.5	9.0	"	"	"	"
NNC[]1250]1040000[[]]]	0. 10	"	19.5	10.0	"	"	"	"
MMCC012500124000000000	0.12	"	20.5	11.5	"	"	"	"
NNC[]1250]1540000[][]]	0. 15	"	23.0	12.0	"	"	"	"
NXCD01250018400000000	0. 18	"	24.5	13.0	"	"	"	"
MMCDD1250D2240000DDDD	0. 22	"	26.5	14.5	"	"	"	"

						1 > 3
					SPEC No.	
SPECIFICATION	METALLIZED P	OLYESTER F	FILM C	CAPACITOR	P S C 3 0 5	0 0 0

SPECIFICATION OF TAPING FOR AUTOMATIC INSERTION (Type NMCV)

1. SCOPE

This specification applies to the taping dimensions and performance required for film capacitors used in the automatic radial insertion system.

Style of packing : Ammo pack

2. TAPING DIMENSIONS

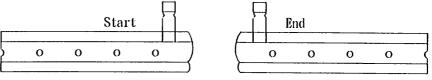
Туре	Taping style Rated Voltage	STYLE-1	STYLE-2	STYLE-3	STYLE-5	STYLE-6
	250V. DC	$102 \sim 154$	184~334	394~125	184~334	394~155
ммсу	400V. DC	102~333	393~104	124~474	393~104	124~474
	450V. DC	102~333	393~104	124~474	393~104	124~474
	630V. DC	102~822	103~473	$563 \sim 224$	103~473	$563 \sim 224$

3. TAPING PERFORMANCE (to be satisfied with the following point)

3-1. Appearance : To be no damages or cracks on components and the tape.

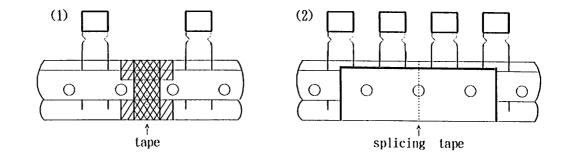
3-2. Missing components : A maximum of 3 consecutive components may be missing.

3-3. Tip of the tape : To leave the blank tape more than 4.5 feed hole pitch from the start, and the end of the tape.

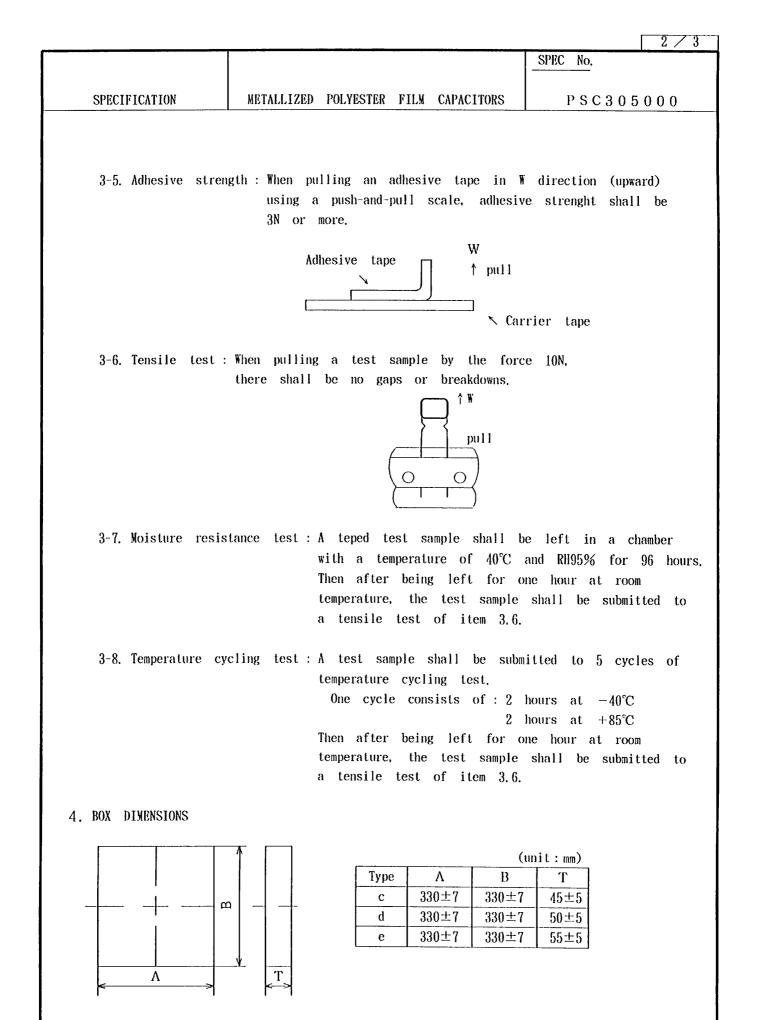


3-4. Tape splicing : Tape splicing may be done with (1) or (2).

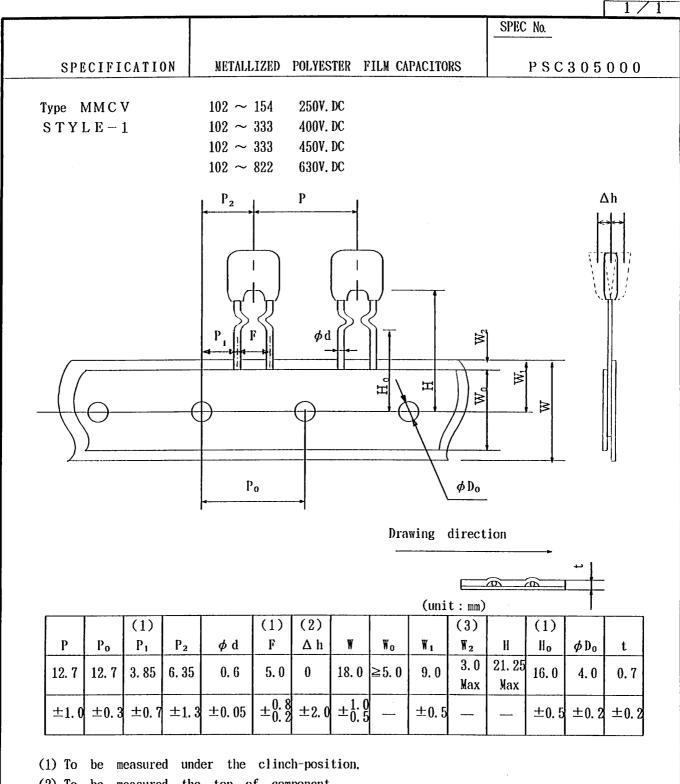
- (1) The carrier tape (include hold-down tape) shall be cut at the center of hole and hole, and spliced with tape.
- (2) The carrier tape (include hold down tape) shall be cut at the center of hole, and spliced with splicing tape.



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										3 /
							SPE	C No.	-	
SPECIFICATION		METALLI	IZED POLYEST	ER FILM C	APACITOR	2	I	, S C 3	050	000
. STYLE OF I 5-1. Packaging * Fold the against a * Thread th	tape i n outle	n the can t opening.	rdboard bo:				pe tu	rning	սթ	
^ đ	xle									
5-2 Marking	An india on this		"open" is							
Example)	on this wing pa	side	"open" is shall be		on the					
The follo	on this wing pa	side rticulars			on the		face of P DATE	of a		
The follo	on this wing pa	side rticulars	shall be		on the	1 N S	P DATE 2 H NO		NO	
The follo Example)	on this wing pa	side rticulars	shall be	labelled	on the	1 N S MAC	P DATE	PKG QTY∕P	NO PKG	
The follo Example) CODE CUST PARTS NO	on this wing pa	side rticulars	shall be ① ③	labelled (6)	on the	INS MAC ROI	P DATE	PKG QTY∕P	NO PKG TT S)	



(2) To be measured the top of component.

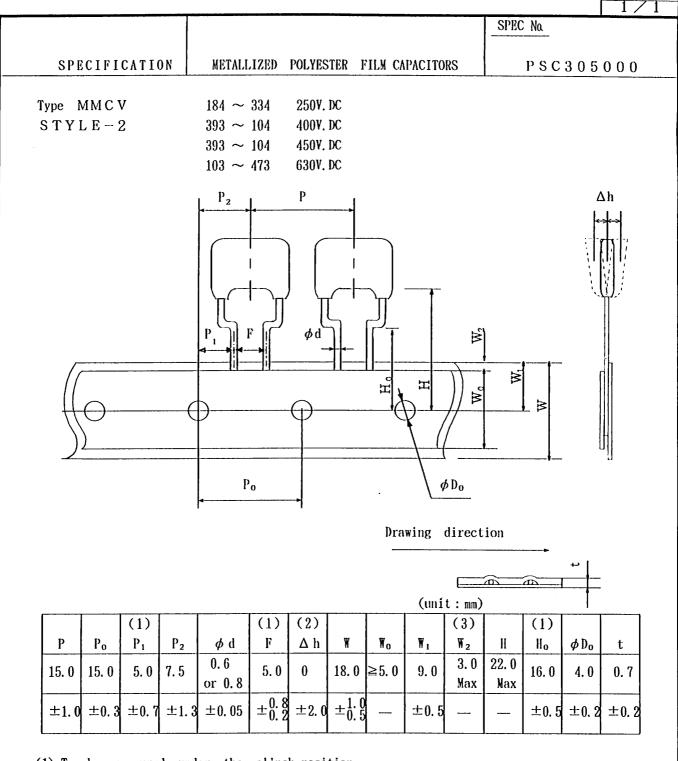
(3) Hold-down tape is not to exceed over the carrire tape.

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RO. 5~0. 8 RO. 8

110

*1.4~1.8



(1) To be measured under the clinch-position,

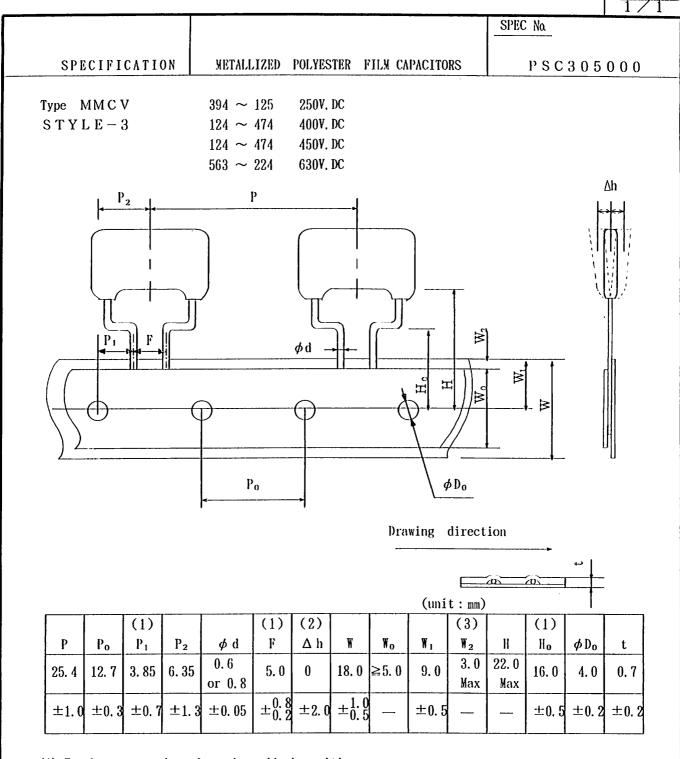
(2) To be measured the top of component.

(3) Hold-down tape is not to exceed over the carrire tape,

RO. 5

~0.8

Ho



(1) To be measured under the clinch-position,

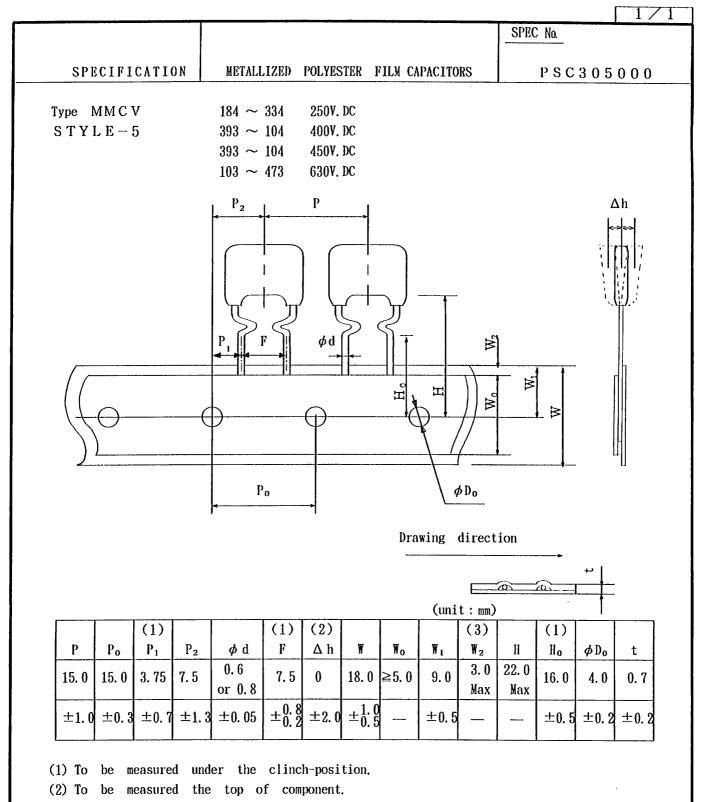
(2) To be measured the top of component.

(3) Hold-down tape is not to exceed over the carrire tape,

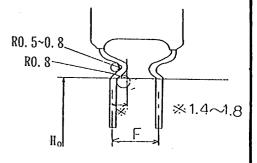
RO. 5 ~0.8

 \mathbb{H}_0

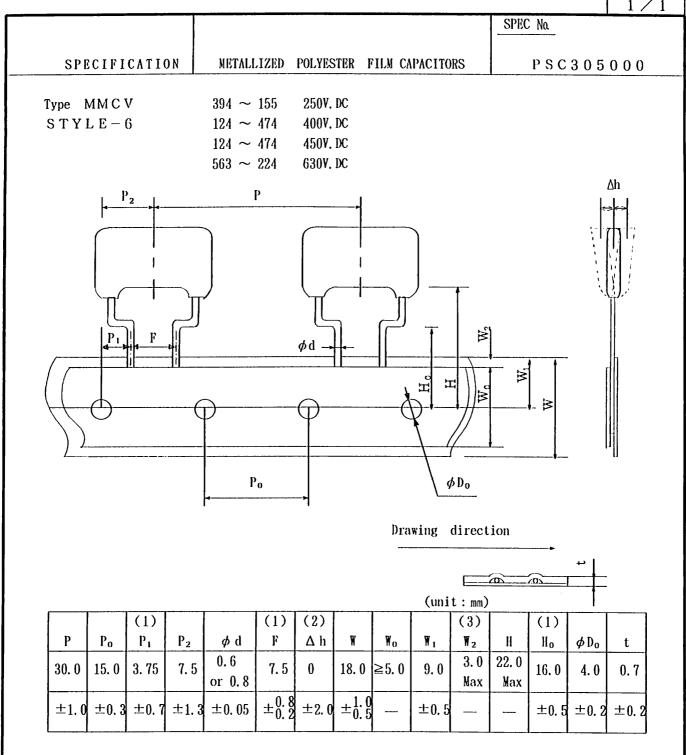
F



(3) Hold-down tape is not to exceed over the carrire tape.



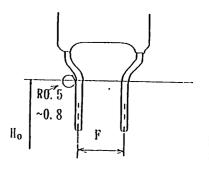
NISSEI ELECTRIC CO., LTD.



(1) To be measured under the clinch-position,

(2) To be measured the top of component.

(3) Hold-down tape is not to exceed over the carrire tape.



METALLIZED POLYESTER FILM CAPACITORS

P S C 3 0 5 0 0 0

SPEC Na

Packing quantity

VNCV-250V DC

MNCV-250V. DC Capacitance		Standau	d quantity	(pcs)	
(μF)	STYLE-1	STYLE-2	STYLE-3	STYLE-5	STYLE-6
0. 0010	1,000				
0.0012	//				
0.0015	"				
0.0018	"				
0.0013					
0.0027					
0.0033	"				
0.0039		· · ·			
0.0047	"	·			
0.0056	"				·
0.0068	"				
0.0082	"				
0.010	"				
0.012	"				-
0.015	"			· <u> </u>	•
0.018					
0.022	"			·	
0. 022	"		- <u> </u>		
0. 033	"				
0. 039				· <u></u>	
0.047	"	i - · · -			
0.056	"				
0.068	"				
0.082	"				
0.10	"		•		
0.12	"				
0.15	"				
0.18		1,000		1,000	
0. 22		"		"	
0. 27		"		"	
0.33		500		500	
0.39			500		500
0.47			"		"
0.56			"	······································	"
0.68			"		"
0.82			"		400
0.90			"		"
1.0			400		"
1. 2			"		"
1.5					300

NISSEI ELECTRIC CO., LTD.

SPECIFICATION

				SPEC No.
SPECIFICATION	METALLIZED	POLYESTER	FILM CAPACITORS	P S C 3 0 5 0 0 0

Packing quantity

Capaci tance	Standard quantity (pcs)					
(µF)	STYLE-1	STYLE-2	STYLE-3	STYLE-5	STYLE-6	
0.0010	1,000					
0.0012	"					
0.0015	"					
0. 0018	"					
0.0022	"					
0.0027	"					
0. 0033	"					
0.0039	"					
0.0047	"					
0.0056	"					
0.0068	"					
0.0082	"					
0.010	"					
0.012	"					
0.015	"					
0.018	"					
0. 022	"					
0. 027	"					
0. 033	"					
0. 039		1,000		1,000		
0.047		"		"		
0.056		"		"		
0.068		"		"		
0. 082	_	"		"		
0.10		"		"		
0.12			500		500	
0.15			"		"	
0.18			"		"	
0. 22			"		400	
0.27			"		"	
0.33			400		300	
0.39			"		"	
0.47		1	"		"	

NISSEI ELECTRIC CO., LTD.

				1/1
				SPEC Na
SPECIFICATION	METALLIZED	POLYESTER	FILM CAPACITORS	P S C 3 0 5 0 0 0

Packing quantity

Capaci tance		Standar	d quantity	v (pcs)	
(μF)	STYLE-1	STYLE-2	STYLE-3	STYLE-5	STYLE-6
0.0010	1,000				
0.0012	"				
0.0015	"				
0. 0018	"				
0.0022	"				
0.0027	"				
0. 0033	"				
0. 0039	"				
0.0047	"				
0.0056	"				
0. 0068	"				
0.0082	"				
0.010	"				
0.012	"				
0.015	"				
0.018	"				
0.022	"				
0. 027	"				
0. 033	"				
0. 039		1,000		1,000	
0.047		"		"	
0.056		"		"	
0.068		"		"	
0. 082		"		"	
0.10		"		"	
0.12			500		500
0.15			"		"
0.18			"		"
0. 22			"		400
0. 27			"		"
0. 33			400		300
0.39			"		"
0.47			"		"

NISSEI ELECTRIC CO., LTD.

				SPEC Na
SPECIFICATION	METALLIZED	POLYESTER	FILM CAPACITORS	P S C 3 O 5 O O O

Packing quantity

Capaci tance	Standard quantity (pcs)						
(μF)	STYLE-1	STYLE-2	STYLE-3	STYLE-5	STYLE-6		
0.0010	1,000						
0.0012	"						
0.0015	"						
0.0018	"						
0.0022	"						
0.0027	"						
0. 0033	"						
0.0039	"						
0.0047	"						
0.0056	"						
0.0068	"						
0.0082	"						
0.010		1,000		1,000			
0.012		"		"			
0.015		"		"			
0.018		"		"			
0. 022		"		"			
0. 027		"		"			
0.033		"		"			
0. 039		"		"			
0.047		500		500			
0.056			500		500		
0.068			"		"		
0. 082			"		400		
0.10			"		"		
0.12			"		"		
0.15			400		300		
0.18			"		"		
0. 22			"		"		



When using a capacitor, please use one within the range of the specified values in the specification after checking the environments of using and mounting.

If used beyond the range specified in the specification or the attached cautions, it may lead to short circuit, open, smoking and firing.

Be sure to inquire of us as to the items which are not specified in the specification or are unclear to you.

Also, in case of using capacitors for such equipment or apparatus as may possibly affect human lives like life-support systems, aircraft and automotive control system, etc., please never fail to inquire of us as to further details.

1. Operating temperature and humidity

- (1) In actual use, make sure that the operating temperature is within the range specified in the specification.
- (2) Even if the operating temperature is within the specified range, sudden change in the operating temperature may lead to cracks on the enclosure and result in deterioration of the insulation resistance or the increase in tangent of loss angle by absorbing moisture through cracks on the enclosure.

Please take good care of the operating temperature.

(3) Please avoid using a capacitor for a long time in succession in high humidity which may lead to the condensation as much as possible.

Even if there are no cracks or damage on an enclosure, deterioration of the insulation resistance or the increase in tangent of loss angle and so on may be caused by absorbing moisture. Therefore, please be careful when using a capacitor.

2. When using a capacitor in a circuit except a d.c. one

(1) When using a capacitor in a circuit except a d.c. one, a capacitor shall be used below the permissible current to frequency.

When used beyond the specified values, the capacitor surface temperature may rise due to the occurrence of corona charge or self heat generation of a capacitor and it may result in a short life, the destruction of the dielectric or the lowering of the insulation resistance. At worst smoking or firing may be led.

(2) Especially when used in a charge-and-discharge ciruit, sudden charge and discharge may cause large surge current because of sudden change in voltage, which may lead to inferior contact between the internal evaporation electrode and the external takeout electrode or the increase in contact resistance and result in open.

Also, in case that a flow of surge current is frequent, the rms current may increase and it may result in smoking or firing due to heating by capacitor's self temprerature rise.

(3) When an a.c. voltage is applied to a capacitor or charge and discharge current flows in a capacitor, mechanical vibrations may occur in the dielectric film due to the coulomb force and the hum may be produced.

Though the hum doesn't spoil electrical charactristics of a capacitor, please confirm that there are no problems in use.

Also, in case that the hum becomes into question, please consult us.

3. Soldering

Soldering at high temperature and for hours may cause deterioration or characteristics or breakdown of a capacitor.

Be sure to solder a capacitor within the range specified in the specification when soldering. In case of soldering beyond the range recommended by us, please inquire of us as to the details in advance.

- (1) When dipping again in order to correct, dipping must be applied after the temperature of a capacitor comes down to a room temperature and within twice.
- (2) Avoid any work that puts the stress on lead wires of a capacitor such as correction of the position right after soldering.
- (3) When soldering with a soldering iron, please see to it lest a soldering iron should touch the body of a capacitor directly.



(MMC type)

4. Mounting

- (1) When inserting a termination of a lead wire into the printed circuit board, the stress put on a lead wire shall be within the following range.
- Bending of lead wire
 When bending a lead wire vertically and then restoring straight, bending of a lead wire in the same place shall be less than two cycles. (One cycle -- bending at 90° and restoring straight)
- ② Twisting of lead wire Twisting of a lead wire should be carried out within a turn (a 360° turn) in total.
- 3 Pulling of lead wire
 The load in pulling of a lead wire shall be less than 20N.
 In case that the above stress is combined together, the value in application should be set less than half of each value.
- (2) When mounting a capacitor by force owing to the difference of the space between lead wires of a capacitor from the space between the holes on the printed circuit board, be careful. It may cause breakage of a lead wire or cracks on coating resin.
- (3) When mounting a capacitor of large size or a capacitor on the equipment affected by vibrations, fix the body of a capacitor with fixing utensils or with resin and so on which has no effect on a capacitor.

However, resin used for fixing shall be a flame retardant and minimum.

(4) Mount a capacitor lest it should touch other parts.

Especially in case of touching a part with self heat generation, a capacitor may deteriorate due to heat and short circuit may be easily caused owing to lowering of dielectric strength or deterioration of the insulation resistance, etc..

5. Cleaning

- (1) When using the solvents for cleaning, use alcohol derivative cleaning solvents (isopropyl alcohol etc).
- (2) Since a small amount of ingredient contained in flux may lead to corrosion of terminations of a capacitor or chemical change of a capacitor element, be sure to clean a printed circuit board right after soldering.
- (3) The temperature for drying after cleaning shall be less than the maximum operating temperature.
- (4) When cleaning with solvents but alcohol derivatives, please inquire of us in advance.

6. Storing and waste

- (1) Store under the conditions not exceeding -10 °C \sim +40 °C, 75%RH in the room and avoid storing in the place filled with a sudden change in the temperature, the direct sunlight or corrosive gases (hydrogen sulfide, sulfurous acid, chlorine and ammonia, etc.).
- (2) A long-term storage may cause deterioration of characteristics of a capacitor owing to absorbing moisture little by little.

Therefore, be sure to use after checking its characteristics and solderability if stored for more than a year.

(3) As capacitors are classified into industrial waste, please ask experts to dispose of them.

7. The others

Please refer to "Guideline of notabilia for fixed plastic film capacitors for use in electronic equipment" published by Electronic Industries Association of Japan (EIAJ RCR-2350) unless specified in the specification.

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 PME261JB5220KR19T0
 A451GK223M040A

 A561ED221M450A
 QXJ2E474KTPT
 QXL2B333KTPT
 R49AN347000A1K
 EEC2G505HQA406
 B25668A6676A375
 B25673A4282E140

 BFC233868148
 BFC2370GC222
 C3B2AD44400B20K
 C4ASWBU3220A3EK
 CB027C0473J- CB17710184J- CB182K0184J- 23PW210

 950CQW5H-F
 SBDC3470AA10J
 SCD105K122A3-22
 2N3155
 A571EH331M450A
 FKP1-2202KV5P15
 FKS3-680040010P10

 QXL2E473KTPT
 445450-1
 B25669A3996J375
 46KI322000M1M
 46KR415050M1K
 4BSNBX4100ZBFJ
 MKP383510063JKP2T0

 MKPY2-.02230020P15
 MKT 1813-368-015
 4055292001
 46KN410000N1K
 EEC2E106HQA405
 EEC2G205HQA402
 EEC2G805HQA415

 P409CP224M250AH470
 82EC2150DQ50K
 A6KN410000N1K
 EEC2E106HQA405
 EEC2G205HQA402
 EEC2G805HQA415