

## METALLIZED POLYPROPYLENE FILM CAPACITOR

CLASS Y2/X1 (EN132400)

### Features

- For interference suppression, <across-the-line> and <line to ground>
- CLASS Y2/X1

### Specifications

Temp range	-40 to +110°C	
Voltage	300V.a.c, 50/60Hz	
Capacitance	0.001 to 1.0μF (E-6)	
Cap. tolerance	±20%(M)	
Tangent of loss angle	0.002 or less (at 25°C ±5°C 1kHz)	
Withstand voltage	Between terminals	2500V.a.c 1sec+ 5000V.d.c 1sec(at 25°C ±5°C)
	Between terminal and case	2500V.a.c 2sec
Insulation resistance	C≤0.33μF	100,000MΩ or more
	C>0.33μF	30,000ΩF or more
Impulse voltage	IEC 60384-14 amendment A1:1995 2nd Ed. 93(EN 132400)PV≤5kV	

### Approvals

	ENEC-IMQ IEC 60384-14	Class Y2/X1	File No. V4160
	CSA C22.2N°.1	Across-the line or Line-to-ground	File No. LR83890
	UL 1414	Across-the line or Line-to-ground	File No. E97797
	GB IT 14472-1998	Class Y2/X1	File No. pending

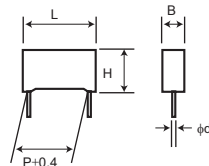
CSA and UL 1414 for 250Vac only.  
Approved according to IEC 60384-14: 1993+A1: 1995  
(EN132400: 1994+A2: 1998+A3: 1998).  
According to IEC 60065.

\* ( ) ENEC mark has replaced all the following European National marks:

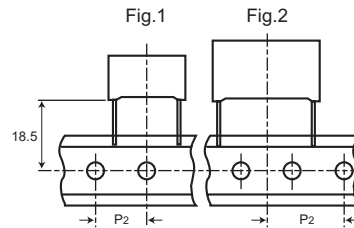


### Dimensions (mm)

Loose



Taped



Type R41	Rated Cap(*)	300 V.a.c					Max dv/dt at 420V.d.c(V/μs)	Parts number	Loose(pcs./Box)	
		B±0.2	H±0.2/0.3	L±0.5	P±0.4	φd-0.05			Short leads	Long leads
102	1000 pF	4.0	9.0	13.0	10.0	0.6	800	R413F 1100 — 00 —	2000	1800
152	1500 pF	4.0	9.0	13.0	10.0	0.6	800	R413F 1150 — 00 —	2000	1800
222	2200 pF	4.0	9.0	13.0	10.0	0.6	800	R413F 1220 — 00 —	2000	1800
332	3300 pF	5.0	11.0	13.0	10.0	0.6	800	R413F 1330 — 00 —	1300	1500
472	4700 pF	5.0	11.0	13.0	10.0	0.6	800	R413F 1470 — 00 —	1300	1500
472	4700 pF	6.0	12.0	13.0	10.0	0.6	800	R413F 1470 — M1 M	1000	1200
682	6800 pF	6.0	12.0	13.0	10.0	0.6	800	R413F 1680 — 00 —	1000	1200
103	0.010 μF	5.0	11.0	18.0	15.0	0.6	600	R413I 2100 — 00 —	2000	1000
153	0.015 μF	6.0	12.0	18.0	15.0	0.6	600	R413I 2150 — 00 —	1750	900
223	0.022 μF	7.5	13.5	18.0	15.0	0.6	600	R413I 2220 — 00 —	1000	700
333	0.033 μF	8.5	14.5	18.0	15.0	0.6	600	R413I 2330 — 00 —	1000	500
473	0.047 μF	10.0	16.0	18.0	15.0	0.6	600	R413I 2470 — 00 —	750	500
473	0.047 μF	6.0	15.0	26.5	22.5	0.8	500	R413N 2470 — 00 —	805	500
683	0.068 μF	7.0	16.0	26.5	22.5	0.8	500	R413N 2680 — 00 —	700	500
104	0.10 μF	10.0	18.5	26.5	22.5	0.8	500	R413N 3100 — 00 —	396	300
154	0.15 μF	11.0	20.0	26.5	22.5	0.8	500	R413N 3150 — 00 —	360	250
224	0.22 μF	13.0	22.0	26.5	22.5	0.8	500	R413N 3220 — 00 —	300	200
224	0.22 μF	13.0	22.0	32.0	27.5	0.8	400	R413R 3220 — 00 M	480	150
334	0.33 μF	14.0	28.0	32.0	27.5	0.8	400	R413R 3330 — 00 —	352	150
474	0.47 μF	18.0	33.0	32.0	27.5	0.8	400	R413R 3470 — 00 —	256	100
684	0.68 μF	18.0	33.0	32.0	27.5	0.8	400	R413R 3680 — 00 —	256	100
474	0.47 μF	13.0	24.0	41.5	37.5	1.0	300	R413W 3470 — 00 —	360	144
684	0.68 μF	16.0	28.5	41.5	37.5	1.0	300	R413W 3680 — 00 —	216	100
105	1.0 μF	20.0	40.0	41.5	37.5	1.0	300	R413W 4100 — 00 —	126	72

E12 Series available upon request  
All dimensions are in mm

Mechanical version and packaging (Table 1)   
Tolerance: K (±10%); M (±20%)

Standard packaging style	Lead length (mm)	Taping style			Ordering code (Digit 10 to 11)
		P2(mm)	Fig.(No.)	Pitch(mm)	
Ammo-pack		12.70	1	10.0/15.0	DQ
Ammo-pack		19.05	2	22.5	DQ
Loose, short leads	4+2				00
Loose, short leads(P≥15mm)	30+5				40
Loose, long leads(P≥15mm)	25+2-1				50
Loose, long leads(P=10mm)	25+1				JY

- Specifications of products, materials and other contents stated in the catalog are subject to change without notice.
- When using our capacitors, please consider the application contact Nissei for the any additional technical specifications relating to the limits of our performance characteristics.