

**METALLIZED POLYPROPYLENE FILM CAPACITOR
SELF-HEALING PROPERTIES**

CLASS X2 (EN132400)

Features

- 1) For interference suppression and < across-the-line >.
- 2) Light and small in size.
- 3) Pitch 10mm available now for 0.010 to 0.047μF.



Specifications

Temp. Range	-40 to +110°C	
Rated Voltage	275V.a.c.	
Capacitance	0.010 to 4.7μF (E-6)	
Cap. Tolerance	±10%(K), ±20%(M)	
Tangent of Loss Angle	0.001 or less (at 25°C ±5 1KHz)	
Withstand Voltage	Between Terminals	1500V.a.c. 1min.
	Between Terminals and Case	1810V.d.c. 1min.
Insulation Resistance	Between Terminals	C ≤ 0.33μF 100,000MΩ or more
		C > 0.33μF 30,000S (ΩF)
Impulse Voltage	IEC 60384-14 amendment A1: 1995 2nd Ed.'93(EN 132400)PV ≤ 2.5kV	

Approvals

ENEC-IMQ EN132400 CB	Class X2	File No. V4413 File No. IT-1524
CSA C22.2No1 (up to 1μF)	Across-the-line	File No. LR83890
UL 1414 (up to 1μF)	Across-the-line	File No. E97797
UL 1283 (310 Vac)	Electromagnetic Interference Filters	File No. E85238
CCEE IEC60384-14	Class X2	File CH0045034-2000

CSA and UL 1414 for 250V.a.c. only.

Approved according to EN 132400 (IEC 60384-14 2nd edition 1993 pulls Amendment A1: 1995).
According to IEC 60065.

Dimensions(mm)

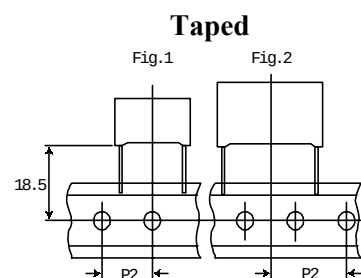
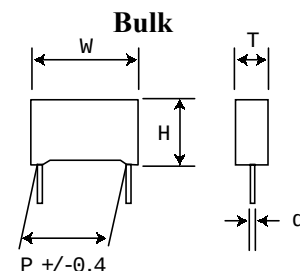
R46		275V.a.c.								Max dv/dt at 390V.d.c.(V/μs)
		*1	*2	Cap (μF)	W±0.5	H±0.2±0.3	T±0.2	P±0.4	Φd±0.05	
R46 KF 2100	--	M1 -	103	0.010	13.0	11.0	5.0	10.0	0.6	500
R46 KF 2150	--	M1 -	153	0.015	13.0	11.0	5.0	10.0	0.6	500
R46 KF 2220	--	M1 -	223	0.022	13.0	11.0	5.0	10.0	0.6	500
R46 KF 2330	--	M1 -	333	0.033	13.0	11.0	5.0	10.0	0.6	500
R46 KF 2470	--	M1 -	473	0.047	13.0	12.0	6.0	10.0	0.6	500
R46 KI 2100	--	01 -	103	0.010	18.0	11.0	5.0	15.0	0.6	400
R46 KI 2150	--	01 -	153	0.015	18.0	11.0	5.0	15.0	0.6	400
R46 KI 2220	--	01 -	223	0.022	18.0	11.0	5.0	15.0	0.6	400
R46 KI 2330	--	01 -	333	0.033	18.0	11.0	5.0	15.0	0.6	400
R46 KI 2470	--	01 -	473	0.047	18.0	11.0	5.0	15.0	0.6	400
R46 KI 2680	--	01 -	683	0.068	18.0	11.0	5.0	15.0	0.6	400
R46 KI 3100	--	M1 -	104	0.10	18.0	11.0	5.0	15.0	0.6	400
R46 KI 3100	--	01 -	104	0.10	18.0	12.0	6.0	15.0	0.6	400
R46 KI 3150	--	M2 M	154	0.15	18.0	12.0	6.0	15.0	0.6	400
R46 KI 3150	--	M1 -	154	0.15	18.0	13.5	7.5	15.0	0.6	400
R46 KI 3220	--	M2 M	224	0.22	18.0	13.5	7.5	15.0	0.6	400
R46 KI 3220	--	M1 -	224	0.22	18.0	14.5	8.5	15.0	0.6	400
R46 KI 3330	--	M1 -	334	0.33	18.0	16.0	10.0	15.0	0.6	400
R46 KI 3470	--	M1 -	474	0.47	18.0	19.0	11.0	15.0	0.6	400
R46 KN 3150	--	01 -	154	0.15	26.5	15.0	6.0	22.5	0.8	200
R46 KN 3220	--	M1 -	224	0.22	26.5	15.0	6.0	22.5	0.8	200
R46 KN 3330	--	M1 -	334	0.33	26.5	16.0	7.0	22.5	0.8	200
R46 KN 3470	--	M1 -	474	0.47	26.5	17.0	8.5	22.5	0.8	200
R46 KN 3470	--	01 -	474	0.47	26.5	18.5	10.0	22.5	0.8	200
R46 KN 3680	--	M2 -	684	0.68	26.5	18.5	10.0	22.5	0.8	200
R46 KN 3680	--	M1 -	684	0.68	26.5	20.0	11.0	22.5	0.8	200
R46 KN 4100	--	M1 -	105	1.0	26.5	22.0	13.0	22.5	0.8	200
R46 KR 3470	--	01 -	474	0.47	32.0	17.0	9.0	27.5	0.8	150
R46 KR 3680	--	M1 -	684	0.68	32.0	17.0	9.0	27.5	0.8	150
R46 KR 3680	--	01 -	684	0.68	32.0	20.0	10.0	27.5	0.8	150
R46 KR 4100	--	M1 -	105	1.0	32.0	20.0	11.0	27.5	0.8	150
R46 KR 4150	--	M1 -	155	1.5	32.0	22.0	13.0	27.5	0.8	150
R46 KR 4150	--	01 -	155	1.5	32.0	24.5	15.0	27.5	0.8	150
R46 KR 4220	--	M1 -	225	2.2	32.0	28.0	14.0	27.5	0.8	150
R46 KR 4220	--	01 -	225	2.2	32.0	33.0	18.0	27.5	0.8	150
R46 KR 4330	--	M2 -	335	3.3	32.0	33.0	18.0	27.5	0.8	150
R46 KR 4330	--	M1 -	335	3.3	32.0	37.0	22.0	27.5	0.8	150
R46 KR 4470	--	M1 -	475	4.7	32.0	37.0	22.0	27.5	0.8	150
R46 KW 4220	--	M1 -	225	2.2	41.5	24.0	13.0	37.5	1.0	100
R46 KW 4330	--	M1 -	335	3.3	41.5	28.5	16.0	37.5	1.0	100
R46 KW 4470	--	M1 -	475	4.7	41.5	32.0	19.0	37.5	1.0	100

*1 Lead/Taping configuration code

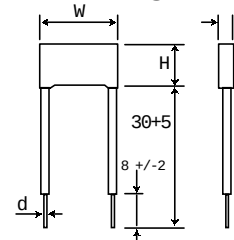
*2 Capacitance Tolerance : K(±10%), M(±20%)

Lead/Taping Configuration	Lead Length (mm)	Taping Style			Lead/Taping Configuration Code
		P2(mm)	Fig.(No.)	Pitch(mm)	
Ammo-Pack		12.70	1	10.0/15.0	DQ
Ammo-Pack		19.05	2	22.5	DQ
Reel Φ355mm		12.70	1	10.0/15.0	CK
Reel Φ500mm		19.05	2	22.5/27.5	CK
Bulk, Short Leads	4±2				00
Bulk, Long Leads	30±5				50
Bulk, Insulated Rigid Leads	30±5				51
Bulk, Insulation Flexible Leads	150±5				52

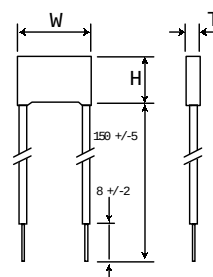
* Ammo-packed is the preferred packaging for taped version.



Insulated Rigid Leads



Insulated Flexible Leads 0.5mm²



When using our capacitors, please consider the application notes and contact Nissei for any additional technical specifications relating to the limits of our performance characteristics.