

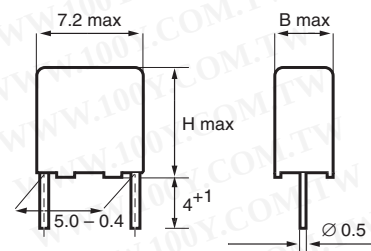
- Polypropylene film/foil capacitor
- According to IEC 60384-13

TYPICAL APPLICATIONS

High speed applications requiring low losses at high frequencies and high dU/dt. Typical applications electrical ballasts, TV/ video, telecommunications.

CONSTRUCTION

Capacitor with polypropylene film and metal foil electrodes. Radial leads of tinned wire are electrically welded to the winding. Encapsulation in self-extinguishing material meeting the requirements of UL 94V-0.



GENERAL DATA

Rated voltage U_R , VDC	63	100	250	400	630	1000
Rated voltage U_R , VAC	40	63	160	220	250	250
Capacitance range, pF	100–22000	100–10000	100–6800	100–6800	100–4700	100–680

Capacitance measured at $f=1\text{kHz}$, $T=20^\circ\text{C}$
 For $C \leq 1000\text{ pF}$, $f = 100\text{ kHz}$.

Capacitance tolerance $\pm 10\%$, $\pm 5\%$, $\pm 2.5\%$, $\pm 2\%$, $\pm 1\%$

DC Test voltage $2 \times U_R$ for 2s

Temperature range $-55 \dots +100^\circ\text{C}$
 An operating temperature up to $+105^\circ\text{C}$ is allowed under certain conditions. For details consult Evox Rifa.

Climatic category IEC 60068-1, 55/100/56
 DIN 40040, FMD

Capacitance drift Max. 0.3% after a 2 year storage period at a temperature of $+10^\circ \dots +40^\circ\text{C}$ and a relative humidity of 40 ... 60%.

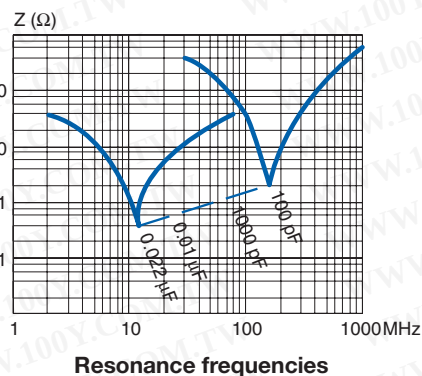
Temperature coefficient $-200 (+50, -100)\text{ ppm}/^\circ\text{C}$ (at 1 kHz)

Self inductance Approximately 6 nH/cm for the total length of capacitor winding and leads.

Dissipation factor $\tan\delta$ Maximum values at $+23^\circ\text{C}$

	$C \leq 1000\text{ pF}$	$1000\text{ pF} < C \leq 4700\text{ pF}$	$C > 4700\text{ pF}$
1 kHz $\leq 0.04\%$		0.04%	0.04%
10 kHz $\leq 0.04\%$		0.05%	0.07%
100 kHz $\leq 0.05\%$		0.07%	

Insulation resistance Measured at $+20^\circ\text{C}$, according to IEC 60384-13.
 Minimum value between terminals: 500 000 M Ω



ENVIRONMENTAL TEST DATA

Damp heat test	Test conditions: Test criteria:	$T = +40^\circ\text{C}$, $\text{RH} = 93\%$, $t = 56\text{ days}$. $\Delta C/C \leq \pm 1\%$, $\tan\delta \leq 1.4 \times \text{value before test}$, (1kHz and 100 kHz) $\text{IR after test} \geq 250\,000\text{ M}\Omega$.
Endurance test	Test conditions: Test criteria:	$T = +85^\circ\text{C}$, $U = 1.5 \times U_R$, $t = 1000\text{ h}$ and $T = +100^\circ\text{C}$, $U = 1.25 \times U_C$, $t = 1000\text{ h}$. $\Delta C/C \leq \pm 1\%$, $\tan\delta \leq 1.4 \times \text{value before test}$, (1kHz and 100 kHz) $\text{IR after test} \geq 250\,000\text{ M}\Omega$.

MARKING

- Rated capacitance
- Capacitance tolerance code
- Rated voltage
- Code PFR5

ARTICLE TABLE

Capacitance
µF

Box code

Max dimensions
in mm

B H L

Max
dU/dt
V/µs

Article code

Capacitance
µF

Box code

Max dimensions
in mm

B H L

Max
dU/dt
V/µs

Article code

63 VDC / 40 VAC

LEAD SPACING 5 MM

0.00010	J11	4.5	6.0	7.2	1000	PFR5 101J63J11L4 BULK
0.00015	J11	4.5	6.0	7.2	1000	PFR5 151J63J11L4 BULK
0.00022	J11	4.5	6.0	7.2	1000	PFR5 221J63J11L4 BULK
0.00033	J11	4.5	6.0	7.2	1000	PFR5 331J63J11L4 BULK
0.00047	J11	4.5	6.0	7.2	1000	PFR5 471J63J11L4 BULK
0.00068	J11	4.5	6.0	7.2	1000	PFR5 681J63J11L4 BULK
0.0010	J11	4.5	6.0	7.2	1000	PFR5 102J63J11L4 BULK
0.0015	J11	4.5	6.0	7.2	1000	PFR5 152J63J11L4 BULK
0.0022	J11	4.5	6.0	7.2	1000	PFR5 222J63J11L4 BULK
0.0033	J11	4.5	6.0	7.2	1000	PFR5 332J63J11L4 BULK
0.0047	J11	4.5	6.0	7.2	1000	PFR5 472J63J11L4 BULK
0.0068	J11	4.5	6.0	7.2	1000	PFR5 682J63J11L4 BULK
0.010	J12	5.5	7.0	7.2	1000	PFR5 103J63J12L4 BULK
0.015	J13	6.5	8.0	7.2	1000	PFR5 153J63J13L4 BULK
0.020	J13	6.5	8.0	7.2	1000	PFR5 203J63J13L4 BULK
0.022	J13	6.5	8.0	7.2	1000	PFR5 223J63J13L4 BULK

100 VDC/ 63 VAC

LEAD SPACING 5 MM

0.00010	J11	4.5	6.0	7.2	1000	PFR5 101J100J11L4 BULK
0.00015	J11	4.5	6.0	7.2	1000	PFR5 151J100J11L4 BULK
0.00022	J11	4.5	6.0	7.2	1000	PFR5 221J100J11L4 BULK
0.00033	J11	4.5	6.0	7.2	1000	PFR5 331J100J11L4 BULK
0.00047	J11	4.5	6.0	7.2	1000	PFR5 471J100J11L4 BULK
0.00068	J11	4.5	6.0	7.2	1000	PFR5 681J100J11L4 BULK
0.0010	J11	4.5	6.0	7.2	1000	PFR5 102J100J11L4 BULK
0.0015	J11	4.5	6.0	7.2	1000	PFR5 152J100J11L4 BULK
0.0022	J11	4.5	6.0	7.2	1000	PFR5 222J100J11L4 BULK
0.0033	J12	5.5	7.0	7.2	1000	PFR5 332J100J12L4 BULK
0.0047	J12	5.5	7.0	7.2	1000	PFR5 472J100J12L4 BULK
0.0068	J13	6.5	8.0	7.2	1000	PFR5 682J100J13L4 BULK
0.010	J13	6.5	8.0	7.2	1000	PFR5 103J100J13L4 BULK

250 VDC/ 160 VAC

LEAD SPACING 5 MM

0.00010	J11	4.5	6.0	7.2	1000	PFR5 101J250J11L4 BULK
0.00015	J11	4.5	6.0	7.2	1000	PFR5 151J250J11L4 BULK
0.00022	J11	4.5	6.0	7.2	1000	PFR5 221J250J11L4 BULK
0.00033	J11	4.5	6.0	7.2	1000	PFR5 331J250J11L4 BULK
0.00047	J11	4.5	6.0	7.2	1000	PFR5 471J250J11L4 BULK
0.00068	J11	4.5	6.0	7.2	1000	PFR5 681J250J11L4 BULK
0.0010	J11	4.5	6.0	7.2	1000	PFR5 102J250J11L4 BULK
0.0015	J11	4.5	6.0	7.2	1000	PFR5 152J250J11L4 BULK
0.0022	J11	4.5	6.0	7.2	1000	PFR5 222J250J11L4 BULK
0.0033	J12	5.5	7.0	7.2	1000	PFR5 332J250J12L4 BULK
0.0047	J13	6.5	8.0	7.2	1000	PFR5 472J250J13L4 BULK
0.0068	J13	6.5	8.0	7.2	1000	PFR5 682J250J13L4 BULK

400 VDC/ 220 VAC

LEAD SPACING 5 MM

0.00010	J11	4.5	6.0	7.2	1000	PFR5 101J400J11L4 BULK
0.00015	J11	4.5	6.0	7.2	1000	PFR5 151J400J11L4 BULK
0.00022	J11	4.5	6.0	7.2	1000	PFR5 221J400J11L4 BULK
0.00033	J11	4.5	6.0	7.2	1000	PFR5 331J400J11L4 BULK
0.00047	J11	4.5	6.0	7.2	1000	PFR5 471J400J11L4 BULK
0.00068	J11	4.5	6.0	7.2	1000	PFR5 681J400J11L4 BULK
0.0010	J11	4.5	6.0	7.2	1000	PFR5 102J400J11L4 BULK
0.0015	J11	4.5	6.0	7.2	1000	PFR5 152J400J11L4 BULK
0.0022	J11	4.5	6.0	7.2	1000	PFR5 222J400J11L4 BULK
0.0033	J12	5.5	7.0	7.2	1000	PFR5 332J400J12L4 BULK
0.0047	J13	6.5	8.0	7.2	1000	PFR5 472J400J13L4 BULK
0.0068	J13	6.5	8.0	7.2	1000	PFR5 682J400J13L4 BULK

630 VDC/ 250 VAC

LEAD SPACING 5 MM

0.00010	J11	4.5	6.0	7.2	1000	PFR5 101J630J11L4 BULK
0.00015	J11	4.5	6.0	7.2	1000	PFR5 151J630J11L4 BULK
0.00022	J11	4.5	6.0	7.2	1000	PFR5 221J630J11L4 BULK
0.00033	J11	4.5	6.0	7.2	1000	PFR5 331J630J11L4 BULK
0.00047	J11	4.5	6.0	7.2	1000	PFR5 471J630J11L4 BULK
0.00068	J11	4.5	6.0	7.2	1000	PFR5 681J630J11L4 BULK
0.0010	J11	4.5	6.0	7.2	1000	PFR5 102J630J11L4 BULK
0.0015	J11	4.5	6.0	7.2	1000	PFR5 152J630J11L4 BULK
0.0022	J12	5.5	7.0	7.2	1000	PFR5 222J630J12L4 BULK
0.0033	J13	6.5	8.0	7.2	1000	PFR5 332J630J13L4 BULK
0.0047	J13	6.5	8.0	7.2	1000	PFR5 472J630J13L4 BULK

1000 VDC/ 250 VAC

LEAD SPACING 5 MM

0.00010	J11	4.5	6.0	7.2	1000	PFR5 101J1000J11L4 BULK
0.00015	J11	4.5	6.0	7.2	1000	PFR5 151J1000J11L4 BULK
0.00022	J11	4.5	6.0	7.2	1000	PFR5 221J1000J11L4 BULK
0.00033	J12	5.5	7.0	7.2	1000	PFR5 331J1000J12L4 BULK
0.00047	J12	5.5	7.0	7.2	1000	PFR5 471J1000J12L4 BULK
0.00068	J12	5.5	7.0	7.2	1000	PFR5 681J1000J12L4 BULK
0.0010	J13	6.5	8.0	7.2	1000	PFR5 102J1000J13L4 BULK

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