R75

MKP Series

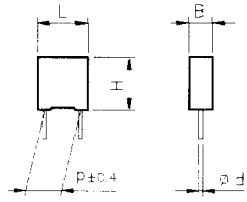
REDUCED SIZES

METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. AND PULSE APPLICATIONS

Typical applications: deflection circuits in TV-sets and monitors (S-correction), resonant capacitor in electronic ballast and compact lamp, coupling capacitor in SMPS, timing and oscillator circuits.

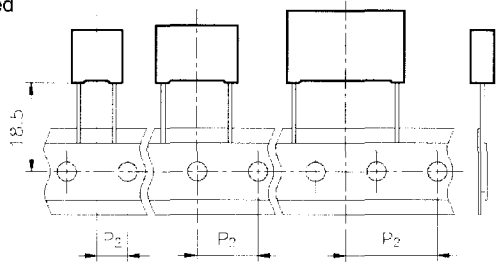
PRODUCT CODE: **R75 (Digit 12: A to Z)**

Loose



Taped

Fig. 1 Fig. 2 Fig. 3



⌀ d ± 0.05	p ≤ 15*	22.5 ≤ p ≤ 27.5	p = 37.5
	0.6	0.8	1.0

*Except for box ≥ 10x16x18 having ⌀d = 0.8 ± 0.05mm

All dimensions are in mm.

PRODUCT CODE SYSTEM

The part number, comprising 14 digits, is formed as follows:

1	2	3	4	5	6	7	8	9	10	11	12	13	14
R	7	5										-	

Digit 1 to 3 Series code.

Digit 4 d.c. rated voltage:
G = 160V I = 250V
M = 400V P = 630V

Digit 5 Pitch:
D = 7.5 mm; F = 10 mm; I = 15 mm;
N = 22.5 mm; R = 27.5mm; W = 37.5mm

Digit 6 to 9 Digits 7 - 8 - 9 indicate the first three digits of Capacitance value and the 6th digit indicates the number of zeros that must be added to obtain the Rated Capacitance in pF.

Digit 10 to 11 Mechanical version and/or packaging (table 1)

Digit 12 Identifies the dimensions and electrical characteristics (A to Z).

Digit 13 Internal use.

Digit 14 Capacitance tolerance:
J=5%; K=10%; M=20%

GENERAL TECHNICAL DATA

Dielectric: polypropylene film.

Plates: metal layer deposited by evaporation under vacuum.

Winding: non-inductive type.

Leads: tinned wire.

Protection: plastic case, epoxy resin filled. Box material is solvent resistant and flame retardant according to UL94 V0.

Marking: manufacturer's logo, series (R75), dielectric code (MKP), capacitance, tolerance, D.C. rated voltage, manufacturing date code.

Climatic category: 55/100/56 IEC 60068-1

Operating temperature range: -55 to +105°C

Related documents: IEC 60384-16

Table 1 (for more detailed information, please refer to pages 15 and 16).

Standard packaging style	Lead length (mm)	Taping style P_2 (mm)	Fig. (No.)	Pitch (mm)	Ordering code (Digit 10 to 11)
AMMO-PACK		6.35	1	7.5	DQ
AMMO-PACK		12.70	2	10.0/15.0	DQ
AMMO-PACK		19.05	3	22.5	DQ
REEL ⌀ 355mm		6.35	1	7.5	CK
REEL ⌀ 355mm		12.70	2	10.0/15.0	GY
REEL ⌀ 500mm		12.70	2	10.0/15.0	CK
REEL ⌀ 500mm		19.05	3	22.5/27.5	CK
Loose, short leads	4^{+2}				AA
Loose, long leads (p ≤ 10mm)	$17^{+1/-2}$				Z3
Loose, long leads (p ≥ 15mm)	30^{+5} $25^{+2/-1}$				40 50

Note: Ammo-pack is the preferred packaging for taped version.

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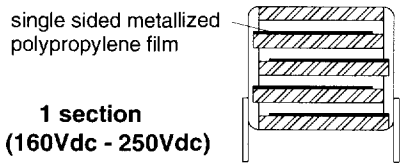

1 section
(160Vdc - 250Vdc)

Rated Cap.	160Vdc / 70Vac				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.10µF	4.0	9.0	10.5	7.5	100	32 E3	R75GD3100--A--
0.12µF	5.0	11.0	10.5	7.5	100	32 E3	R75GD3120--A--
0.15µF	5.0	11.0	10.5	7.5	100	32 E3	R75GD3150--A--
0.18µF	6.0	12.0	10.5	7.5	100	32 E3	R75GD3180--A--
0.22µF	6.0	12.0	10.5	7.5	100	32 E3	R75GD3220--A--
0.12µF	4.0	9.0	13.0	10.0	90	28 E3	R75GF3120--A--
0.15µF	4.0	9.0	13.0	10.0	90	28 E3	R75GF3150--A--
0.18µF	5.0	11.0	13.0	10.0	90	28 E3	R75GF3180--A--
0.22µF	5.0	11.0	13.0	10.0	90	28 E3	R75GF3220--A--
0.27µF	6.0	12.0	13.0	10.0	90	28 E3	R75GF3270--A--
0.33µF	6.0	12.0	13.0	10.0	90	28 E3	R75GF3330--A--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: J (±5%); K (±10%); M (±20%)

Rated Cap.	250Vdc / 140Vac				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.068µF	4.0	9.0	10.5	7.5	180	90 E3	R75ID2680--A--
0.082µF	4.0	9.0	10.5	7.5	180	90 E3	R75ID2820--A--
0.10µF	5.0	11.0	10.5	7.5	180	90 E3	R75ID3100--A--
0.12µF	5.0	11.0	10.5	7.5	180	90 E3	R75ID3120--A--
0.15µF	6.0	12.0	10.5	7.5	180	90 E3	R75ID3150--A--
0.18µF	6.0	12.0	10.5	7.5	180	90 E3	R75ID3180--A--
0.082µF	4.0	9.0	13.0	10.0	150	75 E3	R75IF2820--A--
0.10µF	4.0	9.0	13.0	10.0	150	75 E3	R75IF3100--A--
0.12µF	5.0	11.0	13.0	10.0	150	75 E3	R75IF3120--A--
0.15µF	5.0	11.0	13.0	10.0	150	75 E3	R75IF3150--A--
0.18µF	6.0	12.0	13.0	10.0	150	75 E3	R75IF3180--A--
0.22µF	6.0	12.0	13.0	10.0	150	75 E3	R75IF3220--A--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: J (±5%); K (±10%); M (±20%)

All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V. The pulse characteristic K_0 depends on the voltage wave-form and in any case it cannot overcome the value given in the above table.
The dv/dt test is carried out at 2 times the above values.

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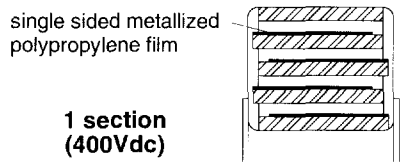
METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. AND PULSE APPLICATIONS

PRODUCT CODE: **R75 (Digit 12: A to Z)**



Rated Cap.	400Vdc / 200Vac B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
0.027µF	4.0	9.0	10.5	7.5	390	312 E3	R75MD2270--A--
0.033µF	5.0	11.0	10.5	7.5	390	312 E3	R75MD2330--A--
0.039µF	5.0	11.0	10.5	7.5	390	312 E3	R75MD2390--A--
0.047µF	5.0	11.0	10.5	7.5	390	312 E3	R75MD2470--A--
0.056µF	6.0	12.0	10.5	7.5	390	312 E3	R75MD2560--A--
0.068µF	6.0	12.0	10.5	7.5	390	312 E3	R75MD2680--A--
0.022µF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2220--M--
0.027µF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2270--M--
0.033µF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2330--M--
0.039µF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2390--M--
0.047µF	5.0	11.0	13.0	10.0	350	280 E3	R75MF 2470--M--
0.056µF	5.0	11.0	13.0	10.0	350	280 E3	R75MF 2560--M--
0.068µF	5.0	11.0	13.0	10.0	350	280 E3	R75MF 2680--M--
0.082µF	6.0	12.0	13.0	10.0	350	280 E3	R75MF 2820--M--
0.10µF	6.0	12.0	13.0	10.0	350	280 E3	R75MF 3100--M--
0.10µF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 3100--M--
0.12µF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 3120--M--
0.15µF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 3150--M--
0.18µF	6.0	12.0	18.0	15.0	300	240 E3	R75MI 3180--M--
0.22µF	6.0	12.0	18.0	15.0	300	240 E3	R75MI 3220--M--
0.27µF	7.5	13.5	18.0	15.0	300	240 E3	R75MI 3270--M--
0.33µF	7.5	13.5	18.0	15.0	300	240 E3	R75MI 3330--M--
0.33µF	9.0	12.5	18.0	15.0	300	240 E3	R75MI 3330--N--
0.39µF	8.5	14.5	18.0	15.0	300	240 E3	R75MI 3390--M--
0.47µF	8.5	14.5	18.0	15.0	300	240 E3	R75MI 3470--M--
0.47µF	13.0	12.0	18.0	15.0	300	240 E3	R75MI 3470--N--
0.56µF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3560--M--
0.68µF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3680--M--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: J (±5%); K (±10%); M (±20%)

Rated Cap.	400Vdc / 200Vac B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
0.27µF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3270--M--
0.33µF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3330--M--
0.39µF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3390--M--
0.47µF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3470--M--
0.56µF	7.0	16.0	26.5	22.5	200	160 E3	R75MN 3560--M--
0.68µF	7.0	16.0	26.5	22.5	200	160 E3	R75MN 3680--M--
0.82µF	8.5	17.0	26.5	22.5	200	160 E3	R75MN 3820--M--
1.0µF	10.0	18.5	26.5	22.5	200	160 E3	R75MN 4100--M--
1.2µF	10.0	18.5	26.5	22.5	200	160 E3	R75MN 4120--M--
1.5µF	11.0	20.0	26.5	22.5	200	160 E3	R75MN 4150--M--
1.8µF	13.0	22.0	26.5	22.5	200	160 E3	R75MN 4180--M--
0.68µF	9.0	17.0	32.0	27.5	125	100 E3	R75MR 3680--M--
0.82µF	9.0	17.0	32.0	27.5	125	100 E3	R75MR 3820--M--
1.0µF	9.0	17.0	32.0	27.5	125	100 E3	R75MR 4100--M--
1.2µF	9.0	17.0	32.0	27.5	100	80 E3	R75MR 4120--M--
1.5µF	11.0	20.0	32.0	27.5	100	80 E3	R75MR 4150--M--
1.8µF	11.0	20.0	32.0	27.5	100	80 E3	R75MR 4180--M--
2.2µF	13.0	22.0	32.0	27.5	100	80 E3	R75MR 4220--M--
2.7µF	13.0	22.0	32.0	27.5	100	80 E3	R75MR 4270--M--
3.3µF	14.0	28.0	32.0	27.5	100	80 E3	R75MR 4330--M--
3.9µF	14.0	28.0	32.0	27.5	100	80 E3	R75MR 4390--M--
4.7µF	18.0	33.0	32.0	27.5	100	80 E3	R75MR 4470--M--
2.2µF	11.0	22.0	41.5	37.5	100	80 E3	R75MW4220--M--
2.7µF	11.0	22.0	41.5	37.5	100	80 E3	R75MW4270--M--
3.3µF	11.0	22.0	41.5	37.5	100	80 E3	R75MW4330--M--
3.9µF	13.0	24.0	41.5	37.5	100	80 E3	R75MW4390--M--
4.7µF	16.0	28.5	41.5	37.5	100	80 E3	R75MW4470--M--
5.6µF	16.0	28.5	41.5	37.5	40	32 E3	R75MW4560--M--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: J (±5%); K (±10%); M (±20%)

All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V. The pulse characteristic K_0 depends on the voltage wave-form and in any case it cannot overcome the value given in the above table.
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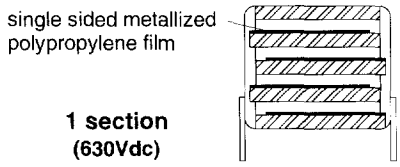


Rated Cap.	630Vdc / 220Vac*				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.010µF	4.0	9.0	10.5	7.5	600	760 E3	R75PD2100--A--
0.012µF	4.0	9.0	10.5	7.5	600	760 E3	R75PD2120--A--
0.015µF	5.0	11.0	10.5	7.5	600	760 E3	R75PD2150--A--
0.018µF	5.0	11.0	10.5	7.5	600	760 E3	R75PD2180--A--
0.022µF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2220--A--
0.027µF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2270--A--
0.010µF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2100--M--
0.012µF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2120--M--
0.015µF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2150--M--
0.018µF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2180--M--
0.022µF	5.0	11.0	13.0	10.0	550	690 E3	R75PF2220--M--
0.027µF	5.0	11.0	13.0	10.0	550	690 E3	R75PF2270--M--
0.033µF	5.0	11.0	13.0	10.0	550	690 E3	R75PF2330--M--
0.039µF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2390--M--
0.047µF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2470--M--
0.056µF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2560--M--
0.068µF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2680--M--
0.010µF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2100--M--
0.012µF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2120--M--
0.015µF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2150--M--
0.018µF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2180--M--
0.022µF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2220--M--
0.027µF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2270--M--
0.033µF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2330--M--
0.039µF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2390--M--
0.047µF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2470--M--
0.056µF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2560--M--
0.068µF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2680--M--
0.082µF	6.0	12.0	18.0	15.0	400	504 E3	R75PI 2820--M--
0.10µF	6.0	12.0	18.0	15.0	400	504 E3	R75PI 3100--M--
0.12µF	7.5	13.5	18.0	15.0	400	504 E3	R75PI 3120--M--
0.15µF	7.5	13.5	18.0	15.0	400	504 E3	R75PI 3150--M--
0.18µF	8.5	14.5	18.0	15.0	400	504 E3	R75PI 3180--M--
0.22µF	8.5	14.5	18.0	15.0	400	504 E3	R75PI 3220--M--
0.22µF	9.0	12.5	18.0	15.0	400	504 E3	R75PI 3220--N--
0.27µF	10.0	16.0	18.0	15.0	400	504 E3	R75PI 3270--M--
0.33µF	10.0	16.0	18.0	15.0	400	504 E3	R75PI 3330--M--
0.33µF	13.0	12.0	18.0	15.0	400	504 E3	R75PI 3330--N--
0.39µF	11.0	19.0	18.0	15.0	400	504 E3	R75PI 3390--M--
0.47µF	11.0	19.0	18.0	15.0	400	504 E3	R75PI 3470--M--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: J (±5%); K (±10%); M (±20%)

Rated Cap.	630Vdc / 220Vac*				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.15µF	6.0	15.0	26.5	22.5	250	315 E3	R75PN3150--M--
0.18µF	6.0	15.0	26.5	22.5	250	315 E3	R75PN3180--M--
0.22µF	6.0	15.0	26.5	22.5	250	315 E3	R75PN3220--M--
0.27µF	7.0	16.0	26.5	22.5	250	315 E3	R75PN3270--M--
0.33µF	7.0	16.0	26.5	22.5	250	315 E3	R75PN3330--M--
0.39µF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3390--M--
0.47µF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3470--M--
0.56µF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3560--M--
0.68µF	11.0	20.0	26.5	22.5	250	315 E3	R75PN3680--M--
0.82µF	13.0	22.0	26.5	22.5	250	315 E3	R75PN3820--M--
1.0µF	13.0	22.0	26.5	22.5	250	315 E3	R75PN4100--M--
0.47µF	9.0	17.0	32.0	27.5	130	160 E3	R75PR3470--M--
0.56µF	9.0	17.0	32.0	27.5	130	160 E3	R75PR3560--M--
0.68µF	10.0	20.0	32.0	27.5	130	160 E3	R75PR3680--M--
0.82µF	11.0	20.0	32.0	27.5	130	160 E3	R75PR3820--M--
1.0µF	11.0	20.0	32.0	27.5	130	160 E3	R75PR4100--M--
1.2µF	13.0	22.0	32.0	27.5	130	160 E3	R75PR4120--M--
1.5µF	15.0	24.0	32.0	27.5	130	160 E3	R75PR4150--M--
1.8µF	14.0	28.0	32.0	27.5	130	160 E3	R75PR4180--M--
2.2µF	18.0	33.0	32.0	27.5	130	160 E3	R75PR4220--M--
2.7µF	18.0	33.0	32.0	27.5	130	160 E3	R75PR4270--M--
3.3µF	22.0	37.0	32.0	27.5	130	160 E3	R75PR4330--M--
3.9µF	22.0	37.0	32.0	27.5	100	126 E3	R75PR4390--M--
4.7µF	22.0	37.0	32.0	27.5	100	126 E3	R75PR4470--M--
1.5µF	11.0	22.0	41.5	37.5	130	160 E3	R75PW4150--M--
1.8µF	11.0	22.0	41.5	37.5	130	160 E3	R75PW4180--M--
2.2µF	13.0	24.0	41.5	37.5	130	160 E3	R75PW4220--M--
2.7µF	16.0	28.5	41.5	37.5	130	160 E3	R75PW4270--M--
3.3µF	16.0	28.5	41.5	37.5	130	160 E3	R75PW4330--M--
3.9µF	19.0	32.0	41.5	37.5	100	126 E3	R75PW4390--M--
4.7µF	19.0	32.0	41.5	37.5	100	126 E3	R75PW4470--M--
5.6µF	20.0	40.0	41.5	37.5	100	126 E3	R75PW4560--M--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: J (±5%); K (±10%); M (±20%)

All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V. The pulse characteristic K_0 depends on the voltage wave-form and in any case it cannot overcome the value given in the above table.
The dv/dt test is carried out at 2 times the above values.

*Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors (page 109).

R75

MKP Series

REDUCED SIZES

METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. AND PULSE APPLICATIONS

PRODUCT CODE: **R75 (Digit 12: A to Z)**

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R):
160Vdc - 250Vdc - 400Vdc - 630Vdc.
Rated temperature (T_R): +85°C
Temperature derated voltage:
The following decreasing factor has to be applied on the rated voltage:
+85°C to +105°C: 2.00% per °C for V_R (d.c.)
+85°C to +105°C: 1.25% per °C for V_R (a.c.)
Capacitance range:
0.01µF to 4.7µF
Capacitance values:
E12 series (IEC 60063 Norm).
Capacitance tolerances (measured at 1 kHz)**:**
±5% (J); ±10% (K); ±20% (M).
Total self-inductance (L)**:** (Lead length ~2 mm)

Pitch (mm)	7.5	10	15	22.5	27.5	37.5
L (nH) ≈	8	9	10	18	18	20

Dissipation factor (DF):
$tg\delta \times 10^{-4}$ at +25°C ±5°C

kHz	C≤0.1µF	0.1<C≤1.0µF	1<C≤4.7µF
1	≤ 4	≤ 5	≤6
10	≤ 6	≤12	
100	≤30		

Insulation resistance:
Test conditions
Temperature: +25°C±5°C
Voltage charge time: 1 min
Voltage charge: 100Vdc
Performance
≥ 1×10^5 MΩ for C≤0.33µF (5×10^5 MΩ)*
≥30000 s for C>0.33µF (150000 s)*
* Typical value.
Test voltage between terminations:
$1.6 \times V_R$ applied for 2 s at +25°C±5°C

TEST METHOD AND PERFORMANCE

Damp heat, steady state:
Test conditions
Temperature: +40°C±2°C
Relative humidity (RH): 93% ±2%
Test duration: 56 days
Performance
Capacitance change |ΔC/C|: ≤2%
DF change (Δtgδ): ≤ 10×10^{-4} at 1kHz
Insulation resistance: ≥50% of initial limit.

Endurance:
Test conditions
Temperature: +85°C±2°C
Test duration: 2000 h
Voltage applied: $1.25 \times V_R$
Performance
Capacitance change |ΔC/C|: ≤3%
DF change (Δtgδ): ≤ 10×10^{-4} at 10kHz for C≤1µF
≤ 10×10^{-4} at 1kHz for C>1µF
Insulation resistance: ≥50% of initial limit.

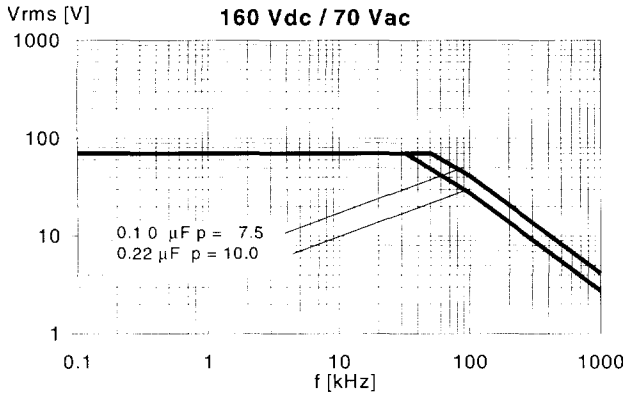
Resistance to soldering heat:
Test conditions
Solder bath temperature: +260°C±5°C
Dipping time (with heat screen): 10 s±1 s
Performance
Capacitance change |ΔC/C|: ≤1%
DF change (Δtgδ): ≤ 10×10^{-4} at 10kHz for C≤1µF
≤ 10×10^{-4} at 1kHz for C>1µF
Insulation resistance: ≥ initial limit.

Long term stability (after two years)**:**
Storage: standard environmental conditions (see page 11).
Performance
Capacitance change |ΔC/C|: ≤0.5%

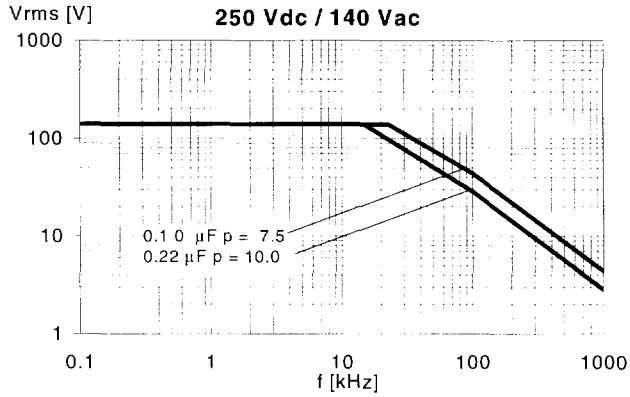
REDUCED SIZES
METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS
PRODUCT CODE: **R75 (Digit 12: A to Z)**

MAX. VOLTAGE (Vr.m.s.) VERSUS FREQUENCY (sinusoidal wave-form / $T_h \leq 40°C$)

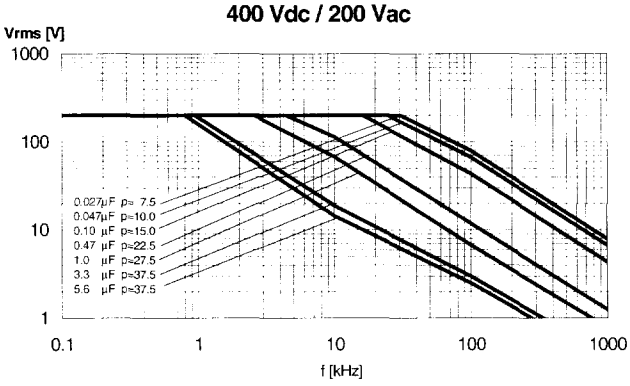
160 Vdc / 70 Vac



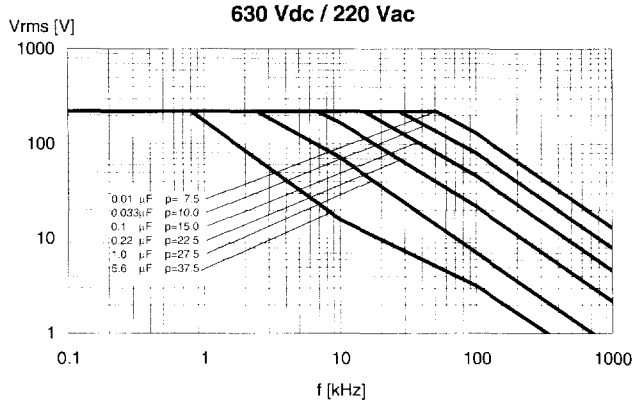
250 Vdc / 140 Vac



400 Vdc / 200 Vac



630 Vdc / 220 Vac



Note: p (pitch) in mm.