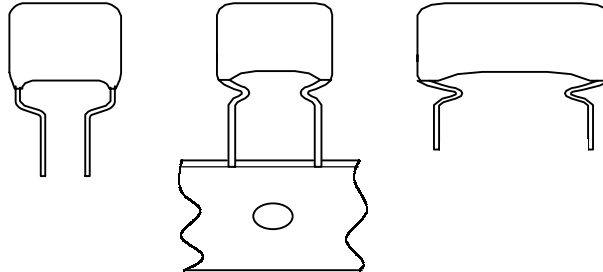


AC and Pulse Polypropylene film capacitors

PU

PP(KP) RADIAL LACQUERED CAPACITORS (Dipped Type)

Pitch 5.0/7.5/10.0/15.0/20.0/25.0 mm



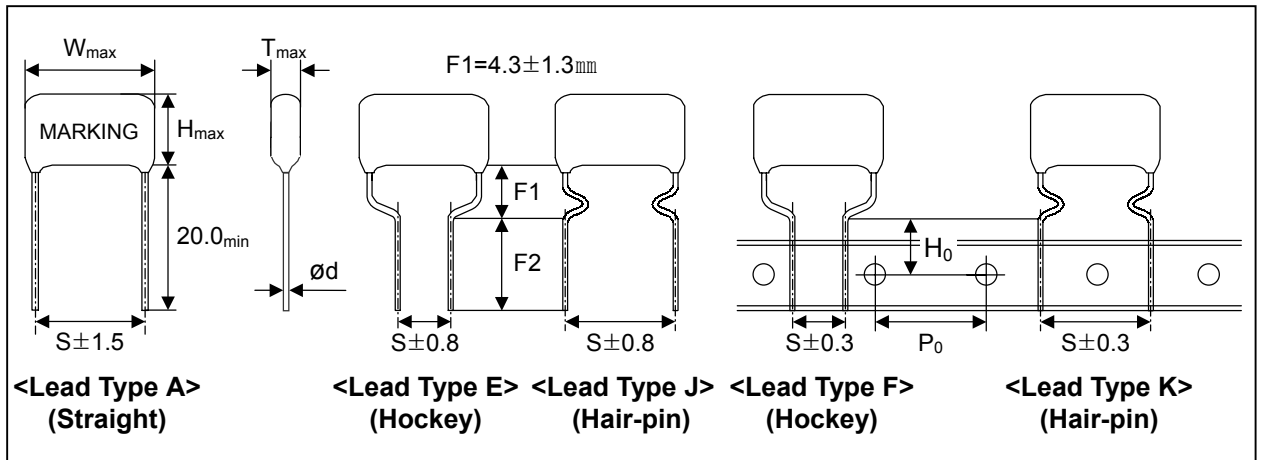
QUICK REFERENCE DATA

Capacitance range (E12 series)	0.001 to 1.0 μ F
Capacitance tolerance	\pm 20%, \pm 10%, \pm 5%
Rated voltage (DC)	100 V, 250 V, 400 V, 630 V
Climatic category	40/085/21
Rated temperature	85 $^{\circ}$ C
Reference specification	IEC 60384-13

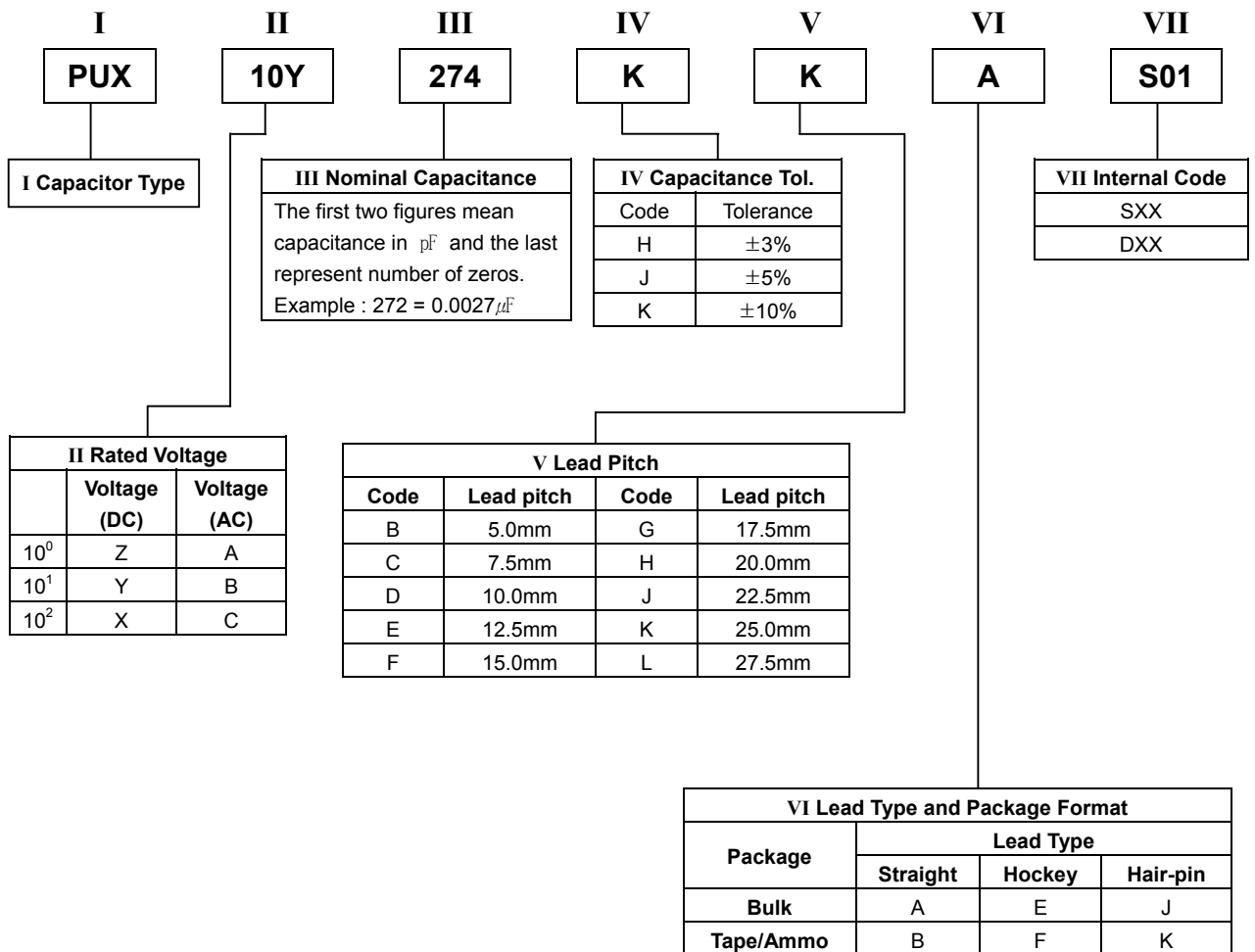
FEATURES <ul style="list-style-type: none"> . Non-inductive . Ideal for pulse circuits . Low dielectric losses . Low dissipation factor . Low ESR . Very stable capacitance levels . High temperature and humidity resistance . 5mm to 25mm lead pitch . Cell coated with flame resisting epoxy lacquer . Supplied loose in box and ammpack 	APPLICATIONS <ul style="list-style-type: none"> . Timing and integrated circuits . Close tolerance applications . High frequency & high current applications . Snubbers . Power circuits . S-correction in television or monitor displays
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AC and Pulse Polypropylene film capacitors

Ordering Information



Part numbers and codes below are based on a seven category identification system and are represented by Roman numerals I thru VII



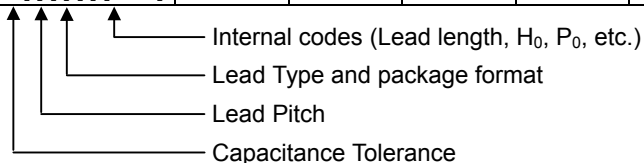
AC and Pulse Polypropylene film capacitors

PU

V_{Rdc} = 100 V

unit: mm

Part Number	Cap (μF)	Dimensions						
		W max	H max	T max	Lead Pitch			∅
					Lead Type A	Lead Type E	Lead Type J	
PUX10Y102[][][][***]	0.0010	11.0	10.0	5.5	7.5	5.0	7.5	0.6
PUX10Y122[][][][***]	0.0012	"	"	"	"	"	"	"
PUX10Y152[][][][***]	0.0015	"	"	"	"	"	"	"
PUX10Y182[][][][***]	0.0018	"	"	"	"	"	"	"
PUX10Y222[][][][***]	0.0022	"	"	"	"	"	"	"
PUX10Y272[][][][***]	0.0027	"	"	"	"	"	"	"
PUX10Y332[][][][***]	0.0033	"	"	"	"	"	"	"
PUX10Y392[][][][***]	0.0039	"	10.5	6.0	"	"	"	"
PUX10Y472[][][][***]	0.0047	"	"	"	"	"	"	"
PUX10Y562[][][][***]	0.0056	"	"	"	"	"	"	"
PUX10Y682[][][][***]	0.0068	"	"	"	"	"	"	"
PUX10Y822[][][][***]	0.0082	"	"	"	"	"	"	"
PUX10Y103[][][][***]	0.010	"	"	"	"	"	"	"
PUX10Y123[][][][***]	0.012	"	"	"	"	"	"	"
PUX10Y153[][][][***]	0.015	"	"	"	"	"	"	"
PUX10Y183[][][][***]	0.018	15.0	11.0	6.0	10.0	5.0	10.0	"
PUX10Y223[][][][***]	0.022	"	11.5	6.0	"	"	"	"
PUX10Y273[][][][***]	0.027	"	12.0	6.5	"	"	"	"
PUX10Y333[][][][***]	0.033	"	13.0	7.0	"	"	"	"
PUX10Y393[][][][***]	0.039	20.0	12.5	6.0	15.0	10.0	15.0	0.8
PUX10Y473[][][][***]	0.047	"	13.0	"	"	"	"	"
PUX10Y563[][][][***]	0.056	"	13.5	6.5	"	"	"	"
PUX10Y683[][][][***]	0.068	"	14.0	7.0	"	"	"	"
PUX10Y823[][][][***]	0.082	"	"	7.5	"	"	"	"
PUX10Y104[][][][***]	0.10	"	15.0	8.0	"	"	"	"
PUX10Y124[][][][***]	0.12	"	15.5	8.5	"	"	"	"
PUX10Y154[][][][***]	0.15	"	16.5	9.5	"	"	"	"
PUX10Y184[][][][***]	0.18	"	17.0	10.5	"	"	"	"
PUX10Y224[][][][***]	0.22	"	18.0	11.5	"	"	"	"
PUX10Y274[][][][***]	0.27	28.5	17.5	9.0	25.0	20.0	25.0	"
PUX10Y334[][][][***]	0.33	"	18.5	10.0	"	"	"	"
PUX10Y394[][][][***]	0.39	"	19.0	11.0	"	"	"	"
PUX10Y474[][][][***]	0.47	"	19.0	12.0	"	"	"	"
PUX10Y564[][][][***]	0.56	"	20.0	12.5	"	"	"	"
PUX10Y684[][][][***]	0.68	"	22.0	13.5	"	"	"	"
PUX10Y824[][][][***]	0.82	"	23.5	15.0	"	"	"	"
PUX10Y105[][][][***]	1.0	"	26.0	16.5	"	"	"	1.0

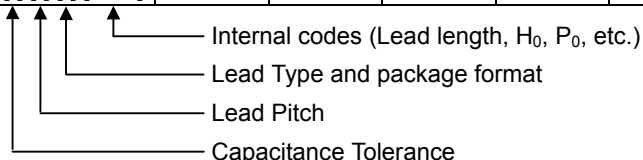


**AC and Pulse
Polypropylene film capacitors**

$V_{Rdc} = 250 V$

unit: mm

Part Number	Cap (μF)	Dimensions						
		W max	H max	T max	Lead Pitch			\emptyset
					Lead Type A	Lead Type E	Lead Type J	
PUX25Y102[][][][***]	0.0010	15.0	12.0	5.5	10.0	5.0	10.0	0.6
PUX25Y122[][][][***]	0.0012	"	"	"	"	"	"	"
PUX25Y152[][][][***]	0.0015	"	"	"	"	"	"	"
PUX25Y182[][][][***]	0.0018	"	"	6.0	"	"	"	"
PUX25Y222[][][][***]	0.0022	"	"	"	"	"	"	"
PUX25Y272[][][][***]	0.0027	"	"	6.5	"	"	"	"
PUX25Y332[][][][***]	0.0033	"	"	"	"	"	"	"
PUX25Y392[][][][***]	0.0039	"	"	"	"	"	"	"
PUX25Y472[][][][***]	0.0047	"	"	"	"	"	"	"
PUX25Y562[][][][***]	0.0056	"	"	"	"	"	"	"
PUX25Y682[][][][***]	0.0068	"	"	"	"	"	"	"
PUX25Y822[][][][***]	0.0082	"	12.5	"	"	"	"	"
PUX25Y103[][][][***]	0.010	"	"	"	"	"	"	"
PUX25Y123[][][][***]	0.012	"	"	"	"	"	"	"
PUX25Y153[][][][***]	0.015	"	"	"	"	"	"	"
PUX25Y183[][][][***]	0.018	20.0	"	"	15.0	10.0	15.0	0.8
PUX25Y223[][][][***]	0.022	"	"	"	"	"	"	"
PUX25Y273[][][][***]	0.027	"	13.0	"	"	"	"	"
PUX25Y333[][][][***]	0.033	"	13.5	7.0	"	"	"	"
PUX25Y393[][][][***]	0.039	"	14.0	7.5	"	"	"	"
PUX25Y473[][][][***]	0.047	"	14.5	8.0	"	"	"	"
PUX25Y563[][][][***]	0.056	"	15.0	8.5	"	"	"	"
PUX25Y683[][][][***]	0.068	"	16.0	9.0	"	"	"	"
PUX25Y823[][][][***]	0.082	"	16.5	10.0	"	"	"	"
PUX25Y104[][][][***]	0.10	"	17.5	10.5	"	"	"	"
PUX25Y124[][][][***]	0.12	"	18.5	11.5	"	"	"	"
PUX25Y154[][][][***]	0.15	28.5	18.0	9.5	25.0	20.0	25.0	"
PUX25Y184[][][][***]	0.18	"	18.5	10.0	"	"	"	"
PUX25Y224[][][][***]	0.22	"	19.5	11.0	"	"	"	"
PUX25Y274[][][][***]	0.27	"	20.5	12.0	"	"	"	"
PUX25Y334[][][][***]	0.33	"	21.5	13.5	"	"	"	"
PUX25Y394[][][][***]	0.39	"	23.0	14.5	"	"	"	"
PUX25Y474[][][][***]	0.47	"	24.5	15.5	"	"	"	"
PUX25Y564[][][][***]	0.56	"	26.0	17.0	"	"	"	1.0
PUX25Y684[][][][***]	0.68	"	27.5	18.5	"	"	"	"

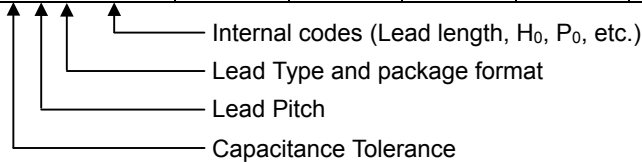


**AC and Pulse
Polypropylene film capacitors**

$V_{Rdc} = 400 V$

unit: mm

Part Number	Cap (μF)	Dimensions						
		W max	H max	T max	Lead Pitch			ϕ
					Lead Type A	Lead Type E	Lead Type J	
PUX40Y102[] [] [] [***]	0.0010	15.0	12.0	5.5	10.0	5.0	10.0	0.6
PUX40Y122[] [] [] [***]	0.0012	"	"	"	"	"	"	"
PUX40Y152[] [] [] [***]	0.0015	"	"	"	"	"	"	"
PUX40Y182[] [] [] [***]	0.0018	"	"	6.0	"	"	"	"
PUX40Y222[] [] [] [***]	0.0022	"	"	"	"	"	"	"
PUX40Y272[] [] [] [***]	0.0027	"	"	6.5	"	"	"	"
PUX40Y332[] [] [] [***]	0.0033	"	"	"	"	"	"	"
PUX40Y392[] [] [] [***]	0.0039	"	"	"	"	"	"	"
PUX40Y472[] [] [] [***]	0.0047	"	"	"	"	"	"	"
PUX40Y562[] [] [] [***]	0.0056	"	"	"	"	"	"	"
PUX40Y682[] [] [] [***]	0.0068	"	"	"	"	"	"	"
PUX40Y822[] [] [] [***]	0.0082	"	12.5	"	"	"	"	"
PUX40Y103[] [] [] [***]	0.010	20.0	13.0	6.5	15.0	10.0	15.0	8.0
PUX40Y123[] [] [] [***]	0.012	"	"	"	"	"	"	"
PUX40Y153[] [] [] [***]	0.015	"	"	"	"	"	"	"
PUX40Y183[] [] [] [***]	0.018	"	13.5	"	"	"	"	"
PUX40Y223[] [] [] [***]	0.022	"	14.0	7.0	"	"	"	"
PUX40Y273[] [] [] [***]	0.027	"	14.5	7.5	"	"	"	"
PUX40Y333[] [] [] [***]	0.033	"	15.0	8.0	"	"	"	"
PUX40Y393[] [] [] [***]	0.039	"	15.5	8.5	"	"	"	"
PUX40Y473[] [] [] [***]	0.047	"	16.0	9.5	"	"	"	"
PUX40Y563[] [] [] [***]	0.056	"	17.0	10.0	"	"	"	"
PUX40Y683[] [] [] [***]	0.068	"	17.5	11.0	"	"	"	"
PUX40Y823[] [] [] [***]	0.082	"	18.5	12.0	"	"	"	"
PUX40Y104[] [] [] [***]	0.10	28.5	18.5	10.0	25.0	20.0	25.0	"
PUX40Y124[] [] [] [***]	0.12	"	19.5	11.0	"	"	"	"
PUX40Y154[] [] [] [***]	0.15	"	20.5	12.0	"	"	"	"
PUX40Y184[] [] [] [***]	0.18	"	21.5	13.0	"	"	"	"
PUX40Y224[] [] [] [***]	0.22	"	23.5	14.5	"	"	"	"
PUX40Y274[] [] [] [***]	0.27	"	24.5	16.0	"	"	"	"
PUX40Y334[] [] [] [***]	0.33	"	26.5	17.5	"	"	"	1.0
PUX40Y394[] [] [] [***]	0.39	"	28.0	19.0	"	"	"	"

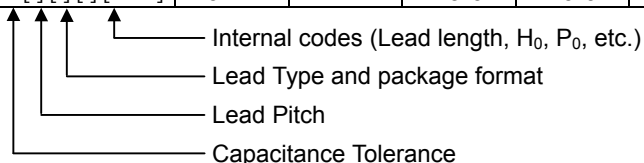


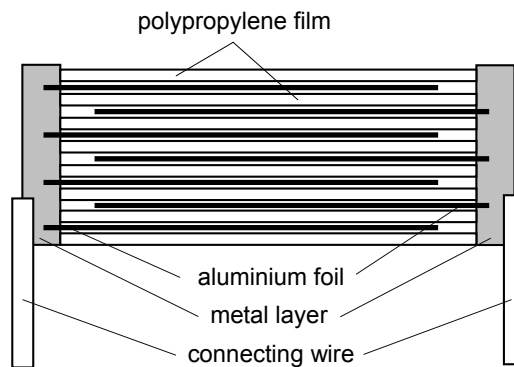
**AC and Pulse
Polypropylene film capacitors**

$V_{Rdc} = 630 V$

unit: mm

Part Number	Cap (μF)	Dimensions						
		W max	H max	T max	Lead Pitch			\emptyset
					Lead Type A	Lead Type E	Lead Type J	
PUX63Y102[][][][***]	0.0010	15.0	12.0	5.5	10.0	5.0	10.0	0.6
PUX63Y122[][][][***]	0.0012	"	"	"	"	"	"	"
PUX63Y152[][][][***]	0.0015	"	"	"	"	"	"	"
PUX63Y182[][][][***]	0.0018	"	"	6.0	"	"	"	"
PUX63Y222[][][][***]	0.0022	"	"	"	"	"	"	"
PUX63Y272[][][][***]	0.0027	"	12.5	6.5	"	"	"	"
PUX63Y332[][][][***]	0.0033	20.0	13.0	"	15.0	7.5	15.0	0.8
PUX63Y392[][][][***]	0.0039	"	"	"	"	"	"	"
PUX63Y472[][][][***]	0.0047	"	"	"	"	"	"	"
PUX63Y562[][][][***]	0.0056	"	"	"	"	"	"	"
PUX63Y682[][][][***]	0.0068	"	"	"	"	"	"	"
PUX63Y822[][][][***]	0.0082	"	13.5	7.0	"	"	"	"
PUX63Y103[][][][***]	0.010	"	14.0	7.5	"	"	"	"
PUX63Y123[][][][***]	0.012	"	15.0	8.0	"	"	"	"
PUX63Y153[][][][***]	0.015	"	15.5	9.0	"	"	"	"
PUX63Y183[][][][***]	0.018	"	16.0	9.5	"	"	"	"
PUX63Y223[][][][***]	0.022	"	17.0	10.5	"	"	"	"
PUX63Y273[][][][***]	0.027	28.5	16.5	8.0	25.0	20.0	25.0	"
PUX63Y333[][][][***]	0.033	"	17.0	9.0	"	"	"	"
PUX63Y393[][][][***]	0.039	"	18.0	9.5	"	"	"	"
PUX63Y473[][][][***]	0.047	"	18.5	10.0	"	"	"	"
PUX63Y563[][][][***]	0.056	"	19.5	11.0	"	"	"	"
PUX63Y683[][][][***]	0.068	"	20.0	11.5	"	"	"	"
PUX63Y823[][][][***]	0.082	"	21.0	12.5	"	"	"	"
PUX63Y104[][][][***]	0.10	"	22.0	14.0	"	"	"	"
PUX63Y124[][][][***]	0.12	"	24.0	15.0	"	"	"	"
PUX63Y154[][][][***]	0.15	"	25.5	17.0	"	"	"	1.0
PUX63Y184[][][][***]	0.18	"	27.0	18.5	"	"	"	"
PUX63Y224[][][][***]	0.22	"	29.0	20.0	"	"	"	"



CONSTRUCTION

Description ;

- . Electrode: Aluminum foil
- . Dielectric: Polypropylene film
- . Flame retardant epoxy-dipped coating (UL 94V-0)
- . Radial leads, tin-coated

MOUNTING**NORMAL USE**

The capacitors are designed for mounting on printed-circuit boards. The capacitors packed in bandoliers are designed for mounting on printed-circuit boards by means of automatic insertion machines.

SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATION AND SHOCK

- . For pitches of 15 mm the capacitors shall be mechanically fixed by the leads
- . For larger pitches the capacitors shall be mounted in the same way and the body clamped.

STORAGE TEMPERATURE

- . Storage temperature : $T_{stg} = -25$ to $+40^{\circ}\text{C}$ with RH maximum 80% without condensation.

RATINGS AND CHARACTERISTICS

Unless otherwise specified all electrical values apply at an ambient temperature of $23 \pm 1^{\circ}\text{C}$, an atmospheric pressure of 86 to 106kPa and a relative humidity of $50 \pm 2\%$.

For reference testing a conditioning period shall be applied of 96 ± 4 hours by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20%.

CHARACTERISTICS

● Test Voltage

. Test Voltage (between leads) : $2.5 \times V_{Rdc}$, 5s

● Dissipation Factor

. Dissipation Factor : $DF < 9 \times 10^{-4}$ when sine wave AC is applied at 1kHz ± 200 Hz and $5V_{rms}$

● Insulation Resistance

. The insulation resistance is measured for 1min ± 5 s, at $250V_{dc}$ (lead to lead)

$$R_{ins} > 40000M\Omega \quad \text{when} \quad C \leq 1.0\mu F$$

● Capacitance

. Capacitance : Within specified tolerance range when sine wave AC is applied at 1kHz ± 200 Hz and $5V_{rms}$

PRODUCT MARKING

The capacitors are marked on the side in black ink with the following information :

- . Manufacturer`s mark
- . Rated capacitance in code according to IEC 60062
- . Tolerance on rated capacitance (J : ± 5 %)
- . Rated DC voltage
- . Date code
- . Manufacturer's type designation (PP)

Example of marking

$$W_{max} = 11.0$$

$$W_{max} \geq 15.0$$

<p>K 222J 100 PP X30338</p>

<p>K 183J 250 X30235 PP</p>
