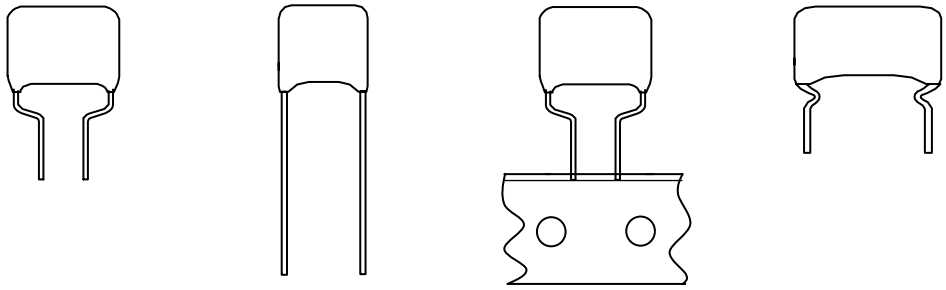
Metallized Polypropylene film capacitors

PCMP 483

MMKP RADIAL LACQUERED CAPACITORS(Dipped Type) – Brown

Pitch 10.0/15.0mm
(reduced pitch ; 7.5mm)



QUICK REFERENCE DATA

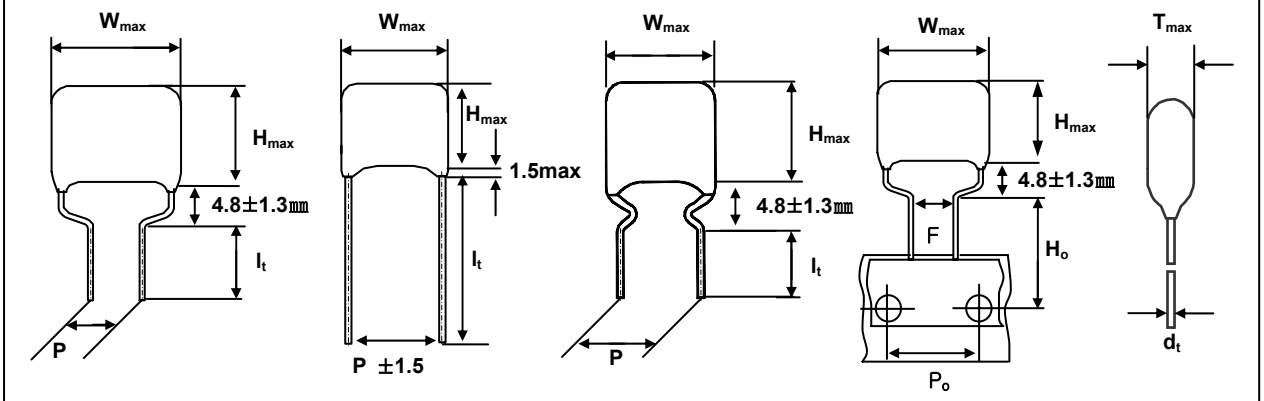
Capacitance range (E24 series)	0.0010 to 0.1μF
Capacitance tolerance	±5%, ±10%
Rated voltage (DC)	250V, 400V, 630V, 800V, 1000V, 1250V
Climatic category	40/105/21
Temperature range	-40℃ ~ +105℃
Reference specification	IEC 60384-16
Coating material	Qualified in accordance with UL94V-0

FEATURES	APPLICATIONS
. Double sided metallized electrodes	. Timing and integrated circuits
. Non-inductive	. High frequency & high current applications
. Low loss dielectric	. Snubbers
. Low dissipation factor	. Power circuits
. Low ESR	. S-correction in television or monitor displays
. Very stable capacitance levels	
. High temperature and humidity resistance	

• Please refer to caution and warning at http://www.pilkor.co.kr/download/Introductions.pdf
before using these products.

Metallized Polypropylene film capacitors — PCMP 483

Ordering Information



< Figure Y > < Figure A > < Figure J > < Figure F >

PCMP 483 X X X X X X

Type series — Capacitance

Code	Voltage
4	250V
5	400V
6	630V
M	800V
7	1000V
N	1250V

Code	Original pitch
D	10.0mm
F	15.0mm

Available versions						Product (W_{max})	
Code	Packing method	C-tol.	Lead Figure	Lead length & Height	Hole to hole (P_o)	13.0	18.0
						Pitch (P)	
U	Loose in box	± 5%	A	I_t= 20.0mm(min.)	-	10.0	15.0
T	Loose in box	±10%	A	I_t= 20.0mm(min.)	-	10.0	15.0
1	Loose in box	± 5%	J	I_t= 4.5±0.5㎜	-	10.0	15.0
2	Loose in box	±10%	J	I_t= 4.5±0.5㎜	-	10.0	15.0
3	Loose in box	± 5%	Y	I_t= 4.5±0.5㎜	-	7.5(*)	7.5(*)
4	Loose in box	±10%	Y	I_t= 4.5±0.5㎜	-	7.5(*)	7.5(*)
C	Ammo packing	± 5%	F	H_0=16.0㎜	15.0㎜	7.5(*)	7.5(*)
D	Ammo packing	±10%	F	H_0=16.0㎜	15.0㎜	7.5(*)	7.5(*)

* Reduced pitch (Reduced lead spacings)

Metallized Polypropylene film capacitors

PCMP 483

V_{Rdc} = 250 V

Cap. (µF)	W_{max} x H_{max} x T_{max} (mm)	Mass (g)	CATALOGUE NUMBER PCMP 483	
			Figure Y	Figure J
			Pitch = 7.5mm lt= 4.5 ± 0.5 mm	Pitch = 15.0mm lt= 4.5 ± 0.5 mm
			C – tol. ± 5%	C – tol. ± 5%
Original Pitch = 15.0 ± 0.8 mm			dt = 0.8 + 0.08 / -0.05 mm	
0.033	18.0 x 12.0 x 7.0		PCMP 483F43333	PCMP 483F41333
0.036	18.0 x 12.0 x 7.0		PCMP 483F43363	PCMP 483F41363
0.039	18.0 x 12.0 x 7.0		PCMP 483F43393	PCMP 483F41393
0.043	18.0 x 12.0 x 7.0		PCMP 483F43433	PCMP 483F41433
0.047	18.0 x 12.0 x 7.0		PCMP 483F43473	PCMP 483F41473
0.051	18.0 x 12.0 x 7.0		PCMP 483F43513	PCMP 483F41513
0.056	18.0 x 12.0 x 7.0		PCMP 483F43563	PCMP 483F41563
0.062	18.0 x 12.0 x 7.0		PCMP 483F43623	PCMP 483F41623
0.068	18.0 x 12.0 x 7.0		PCMP 483F43683	PCMP 483F41683
0.075	18.0 x 12.5 x 7.0		PCMP 483F43753	PCMP 483F41753
0.082	18.0 x 12.5 x 7.5		PCMP 483F43823	PCMP 483F41823
* 0.091	18.0 x 13.0 x 7.5		PCMP 483F43913	PCMP 483F41913
* 0.10	18.0 x 13.5 x 8.0		PCMP 483F43104	PCMP 483F41104

(*) Volume size is bigger than 1750mm^3

Metallized Polypropylene film capacitors

PCMP 483

V_{Rdc} = 400 V

Cap. (µF)	W_{max} x H_{max} x T_{max} (mm)	Mass (g)	CATALOGUE NUMBER PCMP 483 ..... Figure Y Pitch = 7.5mm lt= 4.5 ± 0.5 mm C – tol. ± 5%	CATALOGUE NUMBER PCMP 483 ..... Figure J Pitch = 15.0mm lt= 4.5 ± 0.5 mm C – tol. ± 5%
Original Pitch = 10.0 ± 0.8 mm			dt = 0.6 + 0.06 / -0.05 mm	
0.0033	13.0 x 11.0 x 6.0		PCMP 483D53332	-
0.0036	13.0 x 11.0 x 6.0		PCMP 483D53362	-
0.0039	13.0 x 11.0 x 6.0		PCMP 483D53392	-
0.0043	13.0 x 11.0 x 6.0		PCMP 483D53432	-
0.0047	13.0 x 11.0 x 6.0		PCMP 483D53472	-
0.0051	13.0 x 11.0 x 6.0		PCMP 483D53512	-
0.0056	13.0 x 11.0 x 6.0		PCMP 483D53562	-
0.0062	13.0 x 11.0 x 6.0		PCMP 483D53622	-
0.0068	13.0 x 11.0 x 6.0		PCMP 483D53682	-
0.0075	13.0 x 11.0 x 6.0		PCMP 483D53752	-
0.0082	13.0 x 11.0 x 6.0		PCMP 483D53822	-
0.0091	13.0 x 11.0 x 6.0		PCMP 483D53912	-
0.010	13.0 x 11.0 x 6.0		PCMP 483D53103	-
0.011	13.0 x 11.0 x 6.0		PCMP 483D53113	-
0.012	13.0 x 11.0 x 6.0		PCMP 483D53123	-
0.013	13.0 x 11.0 x 6.0		PCMP 483D53133	-
0.015	13.0 x 11.0 x 6.0		PCMP 483D53153	-
0.016	13.0 x 11.0 x 6.0		PCMP 483D53163	-
0.018	13.0 x 11.5 x 6.5		PCMP 483D53183	-
0.020	13.0 x 11.5 x 6.5		PCMP 483D53203	-
0.022	13.0 x 12.0 x 7.0		PCMP 483D53223	-
0.024	13.0 x 12.5 x 7.0		PCMP 483D53243	-
0.027	13.0 x 12.5 x 7.5		PCMP 483D53273	-
0.030	13.0 x 13.0 x 8.0		PCMP 483D53303	-
0.033	13.0 x 13.5 x 8.0		PCMP 483D53333	-
Original Pitch = 15.0 ± 0.8 mm			dt = 0.8 + 0.08 / -0.05 mm	
0.027	19.0 x 11.5 x 7.0		PCMP 483F53273	PCMP 483F51273
0.030	19.0 x 11.5 x 7.0		PCMP 483F53303	PCMP 483F51303
0.033	19.0 x 12.0 x 7.0		PCMP 483F53333	PCMP 483F51333
0.036	19.0 x 12.0 x 7.0		PCMP 483F53363	PCMP 483F51363
0.039	19.0 x 12.0 x 7.0		PCMP 483F53393	PCMP 483F51393
0.043	19.0 x 12.0 x 7.0		PCMP 483F53433	PCMP 483F51433
0.047	19.0 x 12.0 x 7.0		PCMP 483F53473	PCMP 483F51473
0.051	19.0 x 12.0 x 7.0		PCMP 483F53513	PCMP 483F51513
0.056	19.0 x 12.0 x 7.0		PCMP 483F53563	PCMP 483F51563

Metallized Polypropylene film capacitors

PCMP 483

V_{Rdc} = 630 V

Cap. (µF)	W_{max} x H_{max} x T_{max} (mm)	Mass (g)	CATALOGUE NUMBER PCMP 483	
			Figure Y	Figure J
			Pitch = 7.5mm lt= 4.5 ± 0.5 mm	Pitch = 15.0mm lt= 4.5 ± 0.5 mm
			C – tol. ± 5%	C – tol. ± 5%
Original Pitch = 10.0 ± 0.8 mm dt = 0.6 + 0.06 / -0.05 mm				
0.0010	13.0 x 11.0 x 6.0		PCMP 483D63102	-
0.0011	13.0 x 11.0 x 6.0		PCMP 483D63112	-
0.0012	13.0 x 11.0 x 6.0		PCMP 483D63122	-
0.0013	13.0 x 11.0 x 6.0		PCMP 483D63132	-
0.0015	13.0 x 11.0 x 6.0		PCMP 483D63152	-
0.0016	13.0 x 11.0 x 6.0		PCMP 483D63162	-
0.0018	13.0 x 11.0 x 6.0		PCMP 483D63182	-
0.0020	13.0 x 11.0 x 6.0		PCMP 483D63202	-
0.0022	13.0 x 11.0 x 6.0		PCMP 483D63222	-
0.0024	13.0 x 11.0 x 6.0		PCMP 483D63242	-
0.0027	13.0 x 11.0 x 6.0		PCMP 483D63272	-
0.0030	13.0 x 11.0 x 6.0		PCMP 483D63302	-
0.0033	13.0 x 11.0 x 6.0		PCMP 483D63332	-
0.0036	13.0 x 11.0 x 6.0		PCMP 483D63362	-
0.0039	13.0 x 11.0 x 6.0		PCMP 483D63392	-
0.0043	13.0 x 11.0 x 6.0		PCMP 483D63432	-
0.0047	13.0 x 11.0 x 6.0		PCMP 483D63472	-
0.0051	13.0 x 11.0 x 6.0		PCMP 483D63512	-
0.0056	13.0 x 11.0 x 6.0		PCMP 483D63562	-
0.0062	13.0 x 11.0 x 6.0		PCMP 483D63622	-
0.0068	13.0 x 11.0 x 6.0		PCMP 483D63682	-
0.0075	13.0 x 11.0 x 6.0		PCMP 483D63752	-
0.0082	13.0 x 11.0 x 6.0		PCMP 483D63822	-
0.0091	13.0 x 11.0 x 6.0		PCMP 483D63912	-
0.010	13.0 x 11.0 x 6.0		PCMP 483D63103	-
0.011	13.0 x 11.5 x 6.0		PCMP 483D63113	-
0.012	13.0 x 11.5 x 6.5		PCMP 483D63123	-
0.013	13.0 x 11.5 x 6.5		PCMP 483D63133	-
0.015	13.0 x 12.0 x 7.0		PCMP 483D63153	-
0.016	13.0 x 12.5 x 7.0		PCMP 483D63163	-
0.018	13.0 x 12.5 x 7.5		PCMP 483D63183	-
0.020	13.0 x 13.0 x 8.0		PCMP 483D63203	-
0.022	13.0 x 13.5 x 8.0		PCMP 483D63223	-
Original Pitch = 15.0 ± 0.8 mm dt = 0.8 + 0.08 / -0.05 mm				
0.022	19.0 x 11.5 x 6.5		PCMP 483F63223	PCMP 483F61223
0.024	19.0 x 11.5 x 6.5		PCMP 483F63243	PCMP 483F61243
0.027	19.0 x 12.0 x 6.5		PCMP 483F63273	PCMP 483F61273
0.030	19.0 x 12.0 x 6.5		PCMP 483F63303	PCMP 483F61303
0.033	19.0 x 12.0 x 6.5		PCMP 483F63333	PCMP 483F61333
0.036	19.0 x 12.0 x 7.0		PCMP 483F63363	PCMP 483F61363
0.039	19.0 x 12.5 x 7.0		PCMP 483F63393	PCMP 483F61393
* 0.043	19.0 x 12.5 x 7.5		PCMP 483F63433	PCMP 483F61433
* 0.047	19.0 x 13.0 x 7.5		PCMP 483F63473	PCMP 483F61473

(*) Volume size is bigger than 1750mm^3

Metallized Polypropylene film capacitors

PCMP 483

V_{Rdc} = 800 V

Cap. (µF)	W_{max} x H_{max} x T_{max} (mm)	Mass (g)	CATALOGUE NUMBER PCMP 483 ..... Figure Y Pitch = 7.5mm lt= 4.5 ± 0.5 mm C – tol. ± 5%	CATALOGUE NUMBER PCMP 483 ..... Figure J Pitch = 15.0mm lt= 4.5 ± 0.5 mm C – tol. ± 5%
Original Pitch = 15.0 ± 0.8 mm dt = 0.8 + 0.08 / -0.05 mm				
0.020	18.5 x 11.5 x 6.5		PCMP 483FM3203	PCMP 483FM1203
0.022	18.5 x 12.0 x 6.5		PCMP 483FM3223	PCMP 483FM1223
0.024	18.5 x 12.0 x 7.0		PCMP 483FM3243	PCMP 483FM1243
0.027	18.5 x 12.0 x 7.0		PCMP 483FM3273	PCMP 483FM1273
0.030	18.5 x 12.5 x 7.5		PCMP 483FM3303	PCMP 483FM1303
0.033	18.5 x 12.5 x 7.5		PCMP 483FM3333	PCMP 483FM1333
* 0.036	18.5 x 13.0 x 8.0		PCMP 483FM3363	PCMP 483FM1363
* 0.039	18.5 x 13.5 x 8.5		PCMP 483FM3393	PCMP 483FM1393
* 0.043	18.5 x 14.0 x 8.5		PCMP 483FM3433	PCMP 483FM1433
* 0.047	18.5 x 16.0 x 8.5		PCMP 483FM3473	PCMP 483FM1473
* 0.051	18.5 x 16.5 x 8.5		PCMP 483FM3513	PCMP 483FM1513
* 0.056	18.5 x 17.0 x 8.5		PCMP 483FM3563	PCMP 483FM1563
* 0.062	18.5 x 17.5 x 9.0		PCMP 483FM3623	PCMP 483FM1623
* 0.068	18.5 x 17.5 x 9.5		PCMP 483FM3683	PCMP 483FM1683

(*) Volume size is bigger than 1750mm^3

Metallized Polypropylene film capacitors

PCMP 483

V_{Rdc} = 1000 V

Cap. (µF)	W_{max} x H_{max} x T_{max} (mm)	Mass (g)	CATALOGUE NUMBER PCMP 483	
			Figure Y	Figure J
			Pitch = 7.5mm lt= 4.5 ± 0.5 mm	Pitch = 15.0mm lt= 4.5 ± 0.5 mm
			C – tol. ± 5%	C – tol. ± 5%
Original Pitch = 15.0 ± 0.8 mm			dt = 0.8 + 0.08 / -0.05 mm	
0.020	18.5 x 12.5 x 7.0		PCMP 483F73203	PCMP 483F71203
0.022	18.5 x 12.5 x 7.5		PCMP 483F73223	PCMP 483F71223
* 0.024	18.5 x 13.0 x 7.5		PCMP 483F73243	PCMP 483F71243
* 0.027	18.5 x 13.0 x 8.0		PCMP 483F73273	PCMP 483F71273
* 0.030	18.5 x 13.5 x 8.5		PCMP 483F73303	PCMP 483F71303
* 0.033	18.5 x 14.0 x 8.5		PCMP 483F73333	PCMP 483F71333
* 0.036	18.5 x 16.0 x 8.5		PCMP 483F73363	PCMP 483F71363
* 0.039	18.5 x 16.5 x 8.5		PCMP 483F73393	PCMP 483F71393
* 0.043	18.5 x 17.0 x 8.5		PCMP 483F73433	PCMP 483F71433
* 0.047	18.5 x 17.5 x 9.0		PCMP 483F73473	PCMP 483F71473
* 0.051	18.5 x 17.5 x 9.5		PCMP 483F73513	PCMP 483F71513
* 0.056	18.5 x 18.0 x 9.5		PCMP 483F73563	PCMP 483F71563
* 0.062	18.5 x 18.5 x 10.0		PCMP 483F73623	PCMP 483F71623

(*) Volume size is bigger than 1750mm^3

Metallized Polypropylene film capacitors

PCMP 483

V_{Rdc} = 1250 V

Cap. (µF)	W_{max} x H_{max} x T_{max} (mm)	Mass (g)	CATALOGUE NUMBER PCMP 483	
			Figure Y	Figure J
			Pitch = 7.5mm lt= 4.5 ± 0.5 mm	Pitch = 15.0mm lt= 4.5 ± 0.5 mm
			C – tol. ± 5%	C – tol. ± 5%
Original Pitch = 15.0 ± 0.8 mm			dt = 0.8 + 0.08 / -0.05 mm	
0.010	18.5 x 11.5 x 6.5		PCMP 483FN3103	PCMP 483FN1103
0.012	18.5 x 12.0 x 7.0		PCMP 483FN3123	PCMP 483FN1123
0.015	18.5 x 12.5 x 7.5		PCMP 483FN3153	PCMP 483FN1153
* 0.018	18.5 x 13.5 x 8.0		PCMP 483FN3183	PCMP 483FN1183
* 0.020	18.5 x 16.0 x 8.0		PCMP 483FN3203	PCMP 483FN1203
* 0.022	18.5 x 16.0 x 8.0		PCMP 483FN3223	PCMP 483FN1223
* 0.024	18.5 x 16.5 x 8.0		PCMP 483FN3243	PCMP 483FN1243
* 0.027	18.5 x 17.0 x 8.5		PCMP 483FN3273	PCMP 483FN1273
* 0.030	18.5 x 17.5 x 9.0		PCMP 483FN3303	PCMP 483FN1303
* 0.033	18.5 x 18.0 x 9.5		PCMP 483FN3333	PCMP 483FN1333
* 0.036	18.5 x 18.0 x 10.0		PCMP 483FN3363	PCMP 483FN1363
* 0.039	18.5 x 18.5 x 10.0		PCMP 483FN3393	PCMP 483FN1393
* 0.043	18.5 x 19.0 x 10.5		PCMP 483FN3433	PCMP 483FN1433
* 0.047	18.5 x 19.5 x 11.0		PCMP 483FN3473	PCMP 483FN1473
* 0.051	18.5 x 20.0 x 11.5		PCMP 483FN3513	PCMP 483FN1513
* 0.056	18.5 x 20.5 x 12.0		PCMP 483FN3563	PCMP 483FN1563
* 0.062	18.5 x 21.0 x 13.0		PCMP 483FN3623	PCMP 483FN1623
* 0.068	18.5 x 22.0 x 13.5		PCMP 483FN3683	PCMP 483FN1683

(*) Volume size is bigger than 1750mm^3

Metallized Polypropylene film capacitors

PCMP 483

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 VIBRATIONAND 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℃ with RH maximum 80% without condensation.

RATINGS AND CHARACTERISTICS REFERENCE CONDITIONS

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

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

Metallized Polypropylene film capacitors

PCMP 483

CHARACTERISTICS

- **Test Voltage**
  . Test Voltage (between leads) : 1.6 x V_{Rdc}, 1min (cut-off current 10mA)
  . Test Voltage (between leads and Case) : 2840 V_{dc}, 1min

- **Dissipation Factor**

Rated voltage	Capacitance	Tangent of loss angle (x 10^{-4})	
		10 KHz	100 KHz
250 V	C ≤ 0.10μF	≤ 5	≤ 25
400 V	C ≤ 0.033μF (P =10.0mm)	≤ 5	≤ 15
	0.027μF < C ≤ 0.056μF (P =15.0mm)	≤ 5	≤ 20
630 V	C ≤ 0.022μF (P =10.0mm)	≤ 5	≤ 15
	0.022μF ≤ C ≤ 0.068μF (P =15.0mm)	≤ 5	≤ 15
800 V	C ≤ 0.068μF	≤ 5	≤ 15
1000 V	C ≤ 0.062μF	≤ 6	≤ 15
1250 V	C ≤ 0.068μF	≤ 6	≤ 15

- **Insulation Resistance**
  . The insulation resistance is measured for 1min ±5s,
  at 100V_{dc} for V_{rdc}<500V, at 500Vdc for V_{rdc}≥500V(lead to lead)
  C ≤ 0.33μF : R > 100 000 MΩ
  C > 0.33μF : RC ≥ 30 000 s

- **Rated Voltage Pulse Load Slope $(dV/dt)_R$**
  For values see specific reference data. If the pulse voltage is lower than the rated voltage, the values of the specific reference data must be multiplied by V_{Rdc} and divided by the applied voltage

Rated voltage	Rated voltage pulse slope (V/μs)	
	P = 10.0 mm	P = 15.0 mm
250 V	-	550
400 V	1200	700
630V	1500	900
800 V	-	3000
1000 V	4800	3300
1250 V	6000	4500

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

- **Self heating temperature**
  . Maximum allowable rise is 7℃

Metallized Polypropylene film capacitors

PCMP 483

PRODUCT MARKING

. Rated capacitance in code according to IEC 60062(393)

. Tolerance on rated capacitance (H:±3%, J :±5%, K :±10%)

. Rated DC voltage(630)

. Product type(P483)

. Code for dielectric material(MMKP)

. Batch number code(1341001)

Example of marking

393J 630
P483 MMKP
1341001