

CAPACITOR



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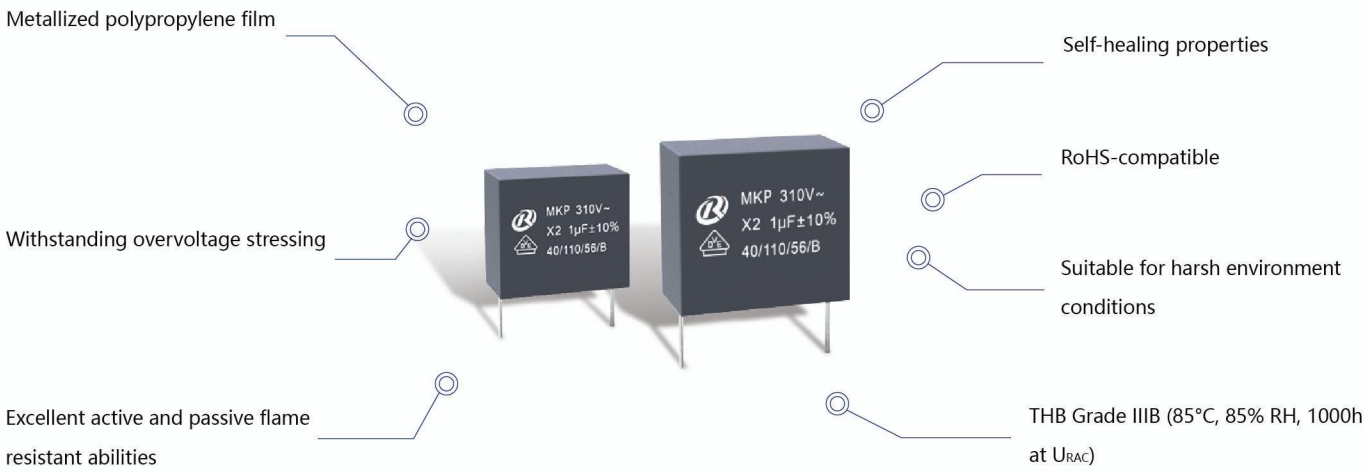
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MKP-X2
EMC-filter

POWER LINKS SUCCESS

EMI Suppression Capacitors X2 series



APPLICATIONS

- X2 class for interference suppression
- Widely used in across-the- line, EMI suppression
- Widely used in Clamping,AC and Harmonic Filtering,UPS Systems, Solar Inverter with LCL Filter and Motor Drive

Technical data

Climatic Category / Passive Flammability Category	40/110/56/B			
Operating temperature range	-40℃~ +110℃			
Capacitance range	0.0022~10μF			
Rated voltage	AC 310V,50~60Hz			
Maximum continuous DC voltage	DC 630V			
Cap.tol	±5% (J) ; ±10% (K) ; ±20% (M)			
Dissipation factor	at	C _N ≤0.47μF	0.47μF < C _N ≤1.0μF	C _N > 1.0μF
	1KHz,20℃	1×10 ⁻³	1×10 ⁻³	3×10 ⁻³
	100KHz,20℃	5×10 ⁻³		
insulation resistance	V test(VDC) 1min	C _N ≤0.33μF		C _N > 0.33μF
	100±15	≥100GΩ		≥30000s
DC test voltage	4.3U _R (DC), 2s			



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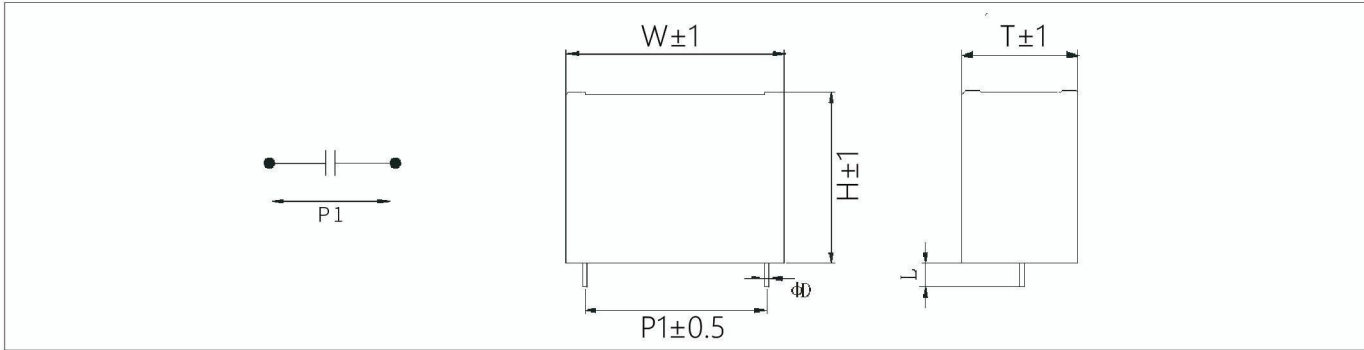
Safety Approvals

	VDE	EN 60384-14/ IEC 60384-14	Certificate: 40052245 (approved by VDE)
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THE DV/DT TABLE

Dv/dt (V/μs)					
P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm	P=52.5mm
475	340	200	150	100	75

THE CONTOUR MAP



PART NUMBER SYSTEM

Type code	Capacitance	Rated Voltage(AC)	Tolerance	Pin	Lead Pitch P1 (mm)	Lead Pitch P2 (mm)	Lead Pitch P2 (mm)	Internal code
1~3	4~6	7~10	11	12	13	14	15	16~17
MKP	105= $10 \times 10^5 pF$ =1μF	0310=310VAC	J=±5% K=±10% M=±20%	2: 2Pin	2: P1=10 3: P1=15 4: P1=22.5 5: P1=27.5 6: P1=37.5 7: P1=52.5	0: 无	1: L=4 2: L=15	01

Specification table

C _N (μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number	C _N (μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
0.0022	13.0	4.0	8.0	0.6	10.0	MPX2220310*220***	0.0056	13.0	4.0	9.0	0.6	10.0	MPX5620310*220***
0.0033	13.0	4.0	9.0	0.6	10.0	MPX3320310*220***	0.0056	13.0	5.0	11.0	0.6	10.0	MPX5620310*220***
0.0047	13.0	4.0	9.0	0.6	10.0	MPX4720310*220***	0.0068	13.0	4.0	9.0	0.6	10.0	MPX6820310*220***
0.0047	13.0	5.0	11.0	0.6	10.0	MPX4720310*220***	0.0068	13.0	5.0	11.0	0.6	10.0	MPX6820310*220***

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EMI Suppression Capacitors X2 series

Specification table

CN(μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
0.0082	13.0	4.0	9.0	0.6	10.0	MPX8220310*220***
0.0082	13.0	5.0	11.0	0.6	10.0	MPX8220310*220***
0.010	13.0	4.0	9.0	0.6	10.0	MPX1030310*220***
0.010	13.0	5.0	11.0	0.6	10.0	MPX1030310*220***
0.010	18.0	4.0	8.0	0.6	15.0	MPX1030310*230***
0.010	18.0	5.0	11.0	0.6	15.0	MPX1030310*230***
0.012	13.0	4.0	9.0	0.6	10.0	MPX1230310*220***
0.012	13.0	5.0	11.0	0.6	10.0	MPX1230310*220***
0.015	13.0	4.0	9.0	0.6	10.0	MPX1530310*220***
0.015	13.0	5.0	11.0	0.6	10.0	MPX1530310*220***
0.015	18.0	4.0	8.0	0.6	15.0	MPX1530310*230***
0.015	18.0	5.0	11.0	0.6	15.0	MPX1530310*230***
0.018	13.0	4.0	9.0	0.6	10.0	MPX1830310*220***
0.018	13.0	5.0	11.0	0.6	10.0	MPX1830310*220***
0.018	18.0	4.0	9.0	0.6	15.0	MPX1830310*230***
0.018	18.0	5.0	11.0	0.6	15.0	MPX1830310*230***
0.022	13.0	4.0	9.0	0.6	10.0	MPX2230310*220***
0.022	13.0	5.0	11.0	0.6	10.0	MPX2230310*220***
0.022	18.0	4.0	9.0	0.6	15.0	MPX2230310*230***
0.022	18.0	5.0	11.0	0.6	15.0	MPX2230310*230***
0.027	13.0	4.0	9.0	0.6	10.0	MPX2730310*220***
0.027	13.0	5.0	11.0	0.6	10.0	MPX2730310*220***
0.027	18.0	4.0	9.0	0.6	15.0	MPX2730310*230***
0.027	18.0	5.0	11.0	0.6	15.0	MPX2730310*230***
0.033	13.0	4.0	9.0	0.6	10.0	MPX3330310*220***
0.033	13.0	5.0	11.0	0.6	10.0	MPX3330310*220***
0.033	18.0	4.0	9.0	0.6	15.0	MPX3330310*230***
0.033	18.0	5.0	11.0	0.6	15.0	MPX3330310*230***
0.039	13.0	4.0	9.0	0.6	10.0	MPX3930310*220***
0.039	13.0	5.0	11.0	0.6	10.0	MPX3930310*220***
0.039	13.0	6.0	12.0	0.6	10.0	MPX3930310*220***
0.039	18.0	4.0	9.0	0.6	15.0	MPX3930310*220***
0.039	18.0	5.0	11.0	0.6	15.0	MPX3930310*220***
0.047	13.0	4.0	9.0	0.6	10.0	MPX4730310*220***
0.047	13.0	5.0	10.0	0.6	10.0	MPX4730310*220***
0.047	13.0	5.0	11.0	0.6	10.0	MPX4730310*220***
0.047	13.0	6.0	12.0	0.6	10.0	MPX4730310*220***
0.047	13.0	7.0	13.0	0.6	10.0	MPX4730310*220***
0.047	18.0	4.0	9.0	0.6	15.0	MPX4730310*230***
0.047	18.0	5.0	11.0	0.6	15.0	MPX4730310*230***
0.056	13.0	4.0	9.0	0.6	10.0	MPX5630310*220***
0.056	13.0	4.5	9.5	0.6	10.0	MPX5630310*220***
0.056	13.0	5.0	10.0	0.6	10.0	MPX5630310*220***
0.056	13.0	5.0	11.0	0.6	10.0	MPX5630310*220***
0.056	13.0	6.0	12.0	0.6	10.0	MPX5630310*220***
0.056	13.0	7.0	13.0	0.6	10.0	MPX5630310*220***

CN(μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
0.056	18.0	4.0	9.0	0.6	15.0	MPX5630310*230***
0.056	18.0	5.0	11.0	0.6	15.0	MPX5630310*230***
0.068	13.0	5.0	11.0	0.6	10.0	MPX6830310*220***
0.068	13.0	6.0	12.0	0.6	10.0	MPX6830310*220***
0.068	13.0	7.0	13.0	0.6	10.0	MPX6830310*220***
0.068	18.0	4.0	10.0	0.6	15.0	MPX6830310*230***
0.068	18.0	5.0	11.0	0.6	15.0	MPX6830310*230***
0.082	13.0	5.0	11.0	0.6	10.0	MPX8230310*220***
0.082	13.0	6.0	12.0	0.6	10.0	MPX8230310*220***
0.082	13.0	7.0	13.0	0.6	10.0	MPX8230310*220***
0.082	18.0	5.0	10.0	0.6	15.0	MPX8230310*230***
0.082	18.0	5.0	11.0	0.6	15.0	MPX8230310*230***
0.082	18.0	6.0	12.0	0.6	15.0	MPX8230310*230***
0.10	13.0	5.0	11.0	0.6	10.0	MPX1040310*220***
0.10	13.0	6.0	12.0	0.6	10.0	MPX1040310*220***
0.10	13.0	8.0	14.0	0.6	10.0	MPX1040310*220***
0.10	18.0	5.0	10.0	0.6	15.0	MPX1040310*230***
0.10	18.0	5.0	11.0	0.6	15.0	MPX1040310*230***
0.10	18.0	6.0	12.0	0.6	15.0	MPX1040310*230***
0.10	18.0	6.0	13.5	0.6	15.0	MPX1040310*230***
0.12	13.0	6.0	12.0	0.6	10.0	MPX1240310*220***
0.12	13.0	7.0	13.0	0.6	10.0	MPX1240310*220***
0.12	18.0	5.0	10.0	0.6	15.0	MPX1240310*230***
0.12	18.0	5.0	11.0	0.6	15.0	MPX1240310*230***
0.12	18.0	6.0	12.0	0.6	15.0	MPX1240310*230***
0.12	18.0	7.5	13.5	0.6	15.0	MPX1240310*230***
0.15	13.0	6.0	12.0	0.6	10.0	MPX1540310*220***
0.15	13.0	7.0	13.0	0.6	10.0	MPX1540310*220***
0.15	13.0	8.0	14.0	0.6	10.0	MPX1540310*220***
0.15	18.0	5.0	10.5	0.6	15.0	MPX1540310*230***
0.15	18.0	6.0	12.0	0.6	15.0	MPX1540310*230***
0.15	18.0	7.5	13.5	0.6	15.0	MPX1540310*230***
0.15	17.0	6.0	14.0	0.6	15.0	MPX1540310*230***
0.15	18.0	8.5	14.5	0.6	15.0	MPX1540310*230***
0.15	26.0	6.0	12.0	0.6	22.5	MPX1540310*240***
0.15	26.5	6.0	15.0	0.6	22.5	MPX1540310*240***
0.15	26.0	6.0	14.5	0.6	22.5	MPX1540310*240***
0.18	13.0	7.0	13.0	0.6	10.0	MPX1840310*220***
0.18	13.0	8.0	14.0	0.6	10.0	MPX1840310*220***
0.18	18.0	5.0	11.0	0.6	15.0	MPX1840310*230***
0.18	18.0	6.0	12.0	0.6	15.0	MPX1840310*230***
0.18	18.0	7.5	13.5	0.6	15.0	MPX1840310*230***
0.18	26.0	6.0	12.0	0.8	22.5	MPX1840310*240***
0.18	26.0	6.0	14.5	0.8	22.5	MPX1840310*240***
0.18	26.5	6.0	15.0	0.8	22.5	MPX1840310*240***
0.22	13.0	8.0	14.0	0.6	10.0	MPX2240310*220***

Specification table

CN(μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
0.22	18.0	6.0	11.5	0.6	15.0	MPX2240310*230***
0.22	18.0	7.0	13.0	0.6	15.0	MPX2240310*230***
0.22	18.0	6.3	13.0	0.6	15.0	MPX2240310*230***
0.22	18.0	6.0	13.5	0.6	15.0	MPX2240310*230***
0.22	18.0	7.5	13.5	0.6	15.0	MPX2240310*230***
0.22	18.0	8.5	14.5	0.6	15.0	MPX2240310*230***
0.22	18.0	10.0	16.0	0.6	15.0	MPX2240310*230***
0.22	26.0	6.0	12.0	0.8	22.5	MPX2240310*240***
0.22	26.5	6.0	15.0	0.8	22.5	MPX2240310*240***
0.22	26.0	6.0	14.5	0.8	22.5	MPX2240310*240***
0.27	18.0	6.0	13.5	0.6	15.0	MPX2740310*230***
0.27	18.0	8.5	14.5	0.6	15.0	MPX2740310*230***
0.27	18.0	10.0	16.0	0.6	15.0	MPX2740310*230***
0.27	26.0	6.0	12.0	0.8	22.5	MPX2740310*240***
0.27	26.5	6.0	15.0	0.8	22.5	MPX2740310*240***
0.27	26.5	7.0	17.0	0.8	22.5	MPX2740310*240***
0.33	18.0	7.0	13.0	0.6	15.0	MPX3340310*230***
0.33	17.5	7.5	17.0	0.6	15.0	MPX3340310*230***
0.33	17.0	9.0	16.0	0.6	15.0	MPX3340310*230***
0.33	18.0	8.5	14.5	0.6	15.0	MPX3340310*230***
0.33	18.0	10.0	16.0	0.6	15.0	MPX3340310*230***
0.33	18.0	11.0	18.5	0.6	15.0	MPX3340310*230***
0.33	26.0	6.0	12.0	0.8	22.5	MPX3340310*240***
0.33	26.5	6.0	15.0	0.8	22.5	MPX3340310*240***
0.33	26.5	7.0	17.0	0.8	22.5	MPX3340310*240***
0.33	26.5	8.5	17.0	0.8	22.5	MPX3340310*240***
0.39	18.0	7.5	13.5	0.6	15.0	MPX3940310*230***
0.39	18.0	10.0	16.0	0.6	15.0	MPX3940310*230***
0.39	18.0	11.0	18.5	0.6	15.0	MPX3940310*230***
0.39	26.0	6.0	12.0	0.8	22.5	MPX3940310*240***
0.39	26.5	6.0	15.0	0.8	22.5	MPX3940310*240***
0.39	26.5	7.0	17.0	0.8	22.5	MPX3940310*240***
0.39	26.5	8.5	17.0	0.8	22.5	MPX3940310*240***
0.39	26.5	10.0	19.0	0.8	22.5	MPX3940310*240***
0.47	18.0	8.0	14.0	0.6	15.0	MPX4740310*230***
0.47	18.0	8.5	16.5	0.6	15.0	MPX4740310*230***
0.47	18.0	10.0	16.0	0.6	15.0	MPX4740310*230***
0.47	18.0	9.0	18.0	0.6	15.0	MPX4740310*230***
0.47	18.0	11.0	18.5	0.6	15.0	MPX4740310*230***
0.47	26.0	6.0	14.0	0.8	22.5	MPX4740310*240***
0.47	26.0	7.5	16.5	0.8	22.5	MPX4740310*240***
0.47	26.5	7.0	17.0	0.8	22.5	MPX4740310*240***
0.47	26.5	8.5	17.0	0.8	22.5	MPX4740310*240***
0.47	26.5	10.0	19.0	0.8	22.5	MPX4740310*240***
0.47	31.0	6.0	13.5	0.8	27.5	MPX4740310*250***
0.47	31.0	6.5	15.5	0.8	27.5	MPX4740310*250***

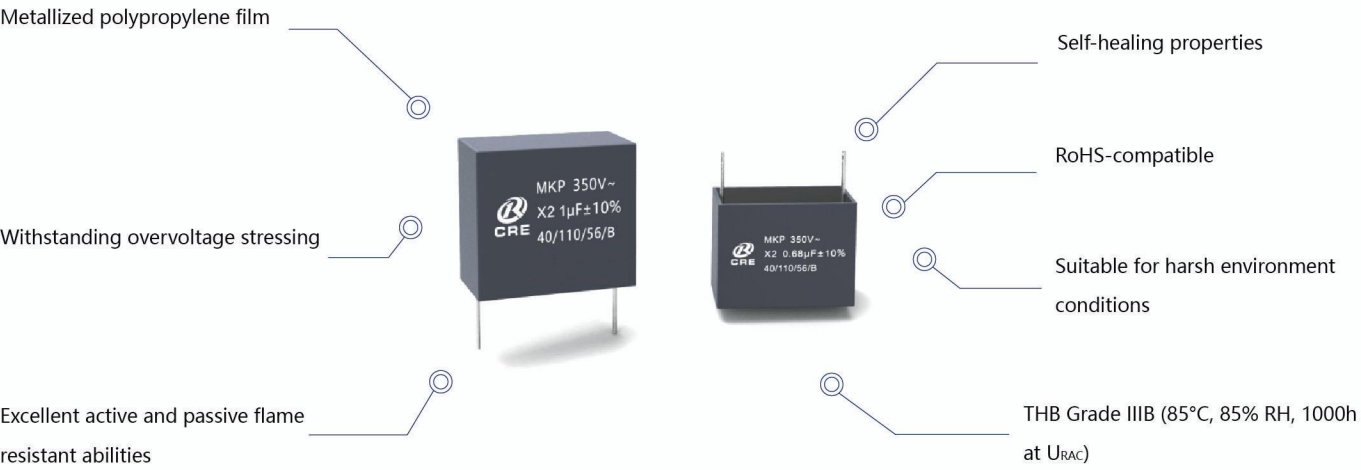
C _N (μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
0.47	32.0	9.0	18.0	0.8	27.5	MPX4740310*250***
0.47	30.0	10.0	17.2	0.8	27.5	MPX4740310*250***
0.47	31.5	11.0	20.0	0.8	27.5	MPX4740310*250***
0.56	18.0	9.0	15.0	0.6	15.0	MPX5640310*230***
0.56	18.0	11.0	18.5	0.6	15.0	MPX5640310*230***
0.56	26.0	7.0	14.0	0.8	22.5	MPX5640310*240***
0.56	26.5	7.5	17.0	0.8	22.5	MPX5640310*240***
0.56	26.5	10.0	19.0	0.8	22.5	MPX5640310*240***
0.56	26.5	11.0	20.0	0.8	22.5	MPX5640310*240***
0.56	31.0	6.5	14.0	0.8	27.5	MPX5640310*250***
0.56	31.0	7.5	16.0	0.8	27.5	MPX5640310*250***
0.56	30.0	10.0	17.2	0.8	27.5	MPX5640310*250***
0.56	32.0	9.0	18.0	0.8	27.5	MPX5640310*250***
0.56	31.5	11.0	20.0	0.8	27.5	MPX5640310*250***
0.68	18.0	10.0	16.0	0.6	15.0	MPX6840310*230***
0.68	18.0	11.0	18.5	0.6	15.0	MPX6840310*230***
0.68	18.0	11.2	19.2	0.6	15.0	MPX6840310*230***
0.68	26.0	7.0	14.0	0.8	22.5	MPX6840310*240***
0.68	26.0	8.0	17.0	0.8	22.5	MPX6840310*240***
0.68	26.5	10.0	19.0	0.8	22.5	MPX6840310*240***
0.68	26.5	12.5	21.5	0.8	22.5	MPX6840310*240***
0.68	31.0	6.5	15.5	0.8	27.5	MPX6840310*250***
0.68	31.0	7.5	16.0	0.8	27.5	MPX6840310*250***
0.68	32.0	9.0	18.0	0.8	27.5	MPX6840310*250***
0.68	30.0	10.0	17.2	0.8	27.5	MPX6840310*250***
0.68	31.5	11.0	20.0	0.8	27.5	MPX6840310*250***
0.82	18.0	10.0	17.5	0.6	15.0	MPX8240310*230***
0.82	18.0	11.0	18.5	0.6	15.0	MPX8240310*230***
0.82	18.0	11.2	19.2	0.6	15.0	MPX8240310*230***
0.82	26.0	8.0	16.0	0.8	22.5	MPX8240310*240***
0.82	26.0	8.5	18.5	0.8	22.5	MPX8240310*240***
0.82	26.5	11.0	20.0	0.8	22.5	MPX8240310*240***
0.82	26.5	13.5	22.0	0.8	22.5	MPX8240310*240***
0.82	31.0	7.5	16.0	0.8	27.5	MPX8240310*250***
0.82	31.0	8.0	17.0	0.8	27.5	MPX8240310*250***
0.82	32.0	9.0	18.0	0.8	27.5	MPX8240310*250***
0.82	32.0	10.0	17.2	0.8	27.5	MPX8240310*250***
0.82	31.5	11.0	20.0	0.8	27.5	MPX8240310*250***
0.82	31.0	13.0	22.0	0.8	27.5	MPX8240310*250***
1.0	18.0	11.0	18.5	0.6	15.0	MPX1050310*230***
1.0	18.0	11.2	19.2	0.6	15.0	MPX1050310*230***
1.0	26.5	8.5	17.0	0.8	22.5	MPX1050310*240***
1.0	26.0	9.0	17.0	0.8	22.5	MPX1050310*240***
1.0	26.0	10.0	19.0	0.8	22.5	MPX1050310*240***
1.0	26.5	12.5	21.5	0.8	22.5	MPX1050310*240***
1.0	26.5	15.0	25.0	0.8	22.5	MPX1050310*240***

EMI Suppression Capacitors X2 series

Specification table

C _N (μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
1.0	31.0	8.0	17.0	0.8	27.5	MPX1050310*250***
1.0	32.0	9.0	18.0	0.8	27.5	MPX1050310*250***
1.0	31.5	11.0	20.0	0.8	27.5	MPX1050310*250***
1.0	31.0	13.0	22.0	0.8	27.5	MPX1050310*250***
1.2	26.0	9.0	19.5	0.8	22.5	MPX1250310*240***
1.2	26.5	10.0	18.5	0.8	22.5	MPX1250310*240***
1.2	26.5	11.0	20.0	0.8	22.5	MPX1250310*240***
1.2	26.5	13.5	24.0	0.8	22.5	MPX1250310*240***
1.2	31.0	9.0	17.5	0.8	27.5	MPX1250310*250***
1.2	32.0	9.0	18.0	0.8	27.5	MPX1250310*250***
1.2	31.5	11.0	20.0	0.8	27.5	MPX1250310*250***
1.2	31.0	13.0	22.0	0.8	27.5	MPX1250310*250***
1.2	31.5	14.0	25.0	0.8	27.5	MPX1250310*250***
1.5	26.0	10.0	21.0	0.8	22.5	MPX1550310*240***
1.5	26.5	11.0	20.0	0.8	22.5	MPX1550310*240***
1.5	26.5	12.5	21.5	0.8	22.5	MPX1550310*240***
1.5	26.5	15.0	25.0	0.8	22.5	MPX1550310*240***
1.5	31.0	10.0	18.5	0.8	27.5	MPX1550310*250***
1.5	32.0	9.0	18.0	0.8	27.5	MPX1550310*250***
1.5	31.5	11.0	20.0	0.8	27.5	MPX1550310*250***
1.5	31.0	14.0	23.5	0.8	27.5	MPX1550310*250***
1.5	31.5	16.0	25.5	0.8	27.5	MPX1550310*250***
1.5	41.0	11.0	22.0	0.8	37.5	MPX1550310*260***
1.5	41.0	13.0	24.0	0.8	37.5	MPX1550310*260***
1.8	26.0	12.5	23.0	0.8	22.5	MPX1850310*240***
1.8	26.5	12.0	22.0	0.8	22.5	MPX1850310*240***
1.8	26.5	15.5	21.5	0.8	22.5	MPX1850310*240***
1.8	26.5	15.0	25.0	0.8	22.5	MPX1850310*240***
1.8	31.5	11.0	20.0	0.8	27.5	MPX1850310*250***
1.8	31.0	12.0	20.5	0.8	27.5	MPX1850310*250***
1.8	31.0	13.0	22.0	0.8	27.5	MPX1850310*250***
1.8	31.0	14.0	25.0	0.8	27.5	MPX1850310*250***
1.8	31.0	18.0	26.0	0.8	27.5	MPX1850310*250***
1.8	41.0	11.0	22.0	0.8	37.5	MPX1850310*260***
1.8	41.0	13.0	24.0	0.8	37.5	MPX1850310*260***
2.2	26.0	15.0	22.0	0.8	22.5	MPX2250310*240***
2.2	26.5	13.5	24.0	0.8	22.5	MPX2250310*240***
2.2	31.0	13.0	22.0	0.8	27.5	MPX2250310*250***
2.2	32.0	14.0	23.5	0.8	27.5	MPX2250310*250***
2.2	31.0	18.0	26.0	0.8	27.5	MPX2250310*250***
2.2	31.5	18.0	30.0	0.8	27.5	MPX2250310*250***
2.2	41.0	11.0	22.0	0.8	37.5	MPX2250310*260***
2.2	41.0	13.0	24.0	0.8	37.5	MPX2250310*260***
2.2	41.0	15.0	26.0	0.8	37.5	MPX2250310*260***
2.7	31.0	13.0	22.0	0.8	27.5	MPX2750310*250***
2.7	31.5	16.0	25.5	0.8	27.5	MPX2750310*250***

C _N (μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
2.7	31.0	19.0	28.0	0.8	27.5	MPX2750310*250***
2.7	41.0	13.0	24.0	0.8	37.5	MPX2750310*260***
2.7	41.0	15.0	26.0	0.8	37.5	MPX2750310*260***
2.7	41.0	16.0	27.5	0.8	37.5	MPX2750310*260***
3.3	31.0	14.0	25.0	0.8	27.5	MPX3350310*250***
3.3	31.0	17.5	26.0	0.8	27.5	MPX3350310*250***
3.3	31.0	15.5	29.0	0.8	27.5	MPX3350310*250***
3.3	32.0	18.0	33.0	0.8	27.5	MPX3350310*250***
3.3	41.0	15.0	26.0	0.8	37.5	MPX3350310*260***
3.3	42.0	14.0	28.0	0.8	37.5	MPX3350310*260***
3.3	41.5	14.5	26.0	0.8	37.5	MPX3350310*260***
3.3	41.5	16.0	27.5	0.8	37.5	MPX3350310*260***
3.3	41.5	18.5	31.5	0.8	37.5	MPX3350310*260***
3.9	31.5	16.0	25.5	0.8	27.5	MPX3950310*250***
3.9	31.0	19.0	28.0	0.8	27.5	MPX3950310*250***
3.9	32.0	22.0	37.0	0.8	27.5	MPX3950310*250***
3.9	41.5	16.0	27.5	0.8	37.5	MPX3950310*260***
3.9	41.0	16.0	30.0	0.8	37.5	MPX3950310*260***
3.9	41.0	18.5	33.5	0.8	37.5	MPX3950310*260***
4.7	31.0	18.0	26.0	0.8	27.5	MPX4750310*250***
4.7	31.0	20.0	30.5	0.8	27.5	MPX4750310*250***
4.7	31.0	19.0	32.5	0.8	27.5	MPX4750310*250***
4.7	32.0	22.0	37.0	0.8	27.5	MPX4750310*250***
4.7	41.5	17.0	30.0	0.8	37.5	MPX4750310*260***
4.7	41.0	16.0	30.0	0.8	37.5	MPX4750310*260***
4.7	41.0	18.5	33.5	0.8	37.5	MPX4750310*260***
4.7	41.5	25.0	38.0	0.8	37.5	MPX4750310*260***
5.6	31.5	18.0	30.0	0.8	27.5	MPX5650310*250***
5.6	31.0	21.0	34.5	0.8	27.5	MPX5650310*250***
5.6	41.5	18.5	31.5	0.8	37.5	MPX5650310*260***
5.6	41.0	18.5	33.5	0.8	37.5	MPX5650310*260***
5.6	41.0	22.5	35.5	0.8	37.5	MPX5650310*260***
5.6	41.5	25.0	38.0	0.8	37.5	MPX5650310*260***
6.8	31.0	21.0	34.5	0.8	27.5	MPX6850310*250***
6.8	41.0	18.5	33.5	0.8	37.5	MPX6850310*260***
6.8	41.5	22.5	35.5	0.8	37.5	MPX6850310*260***
8.2	41.0	22.0	37.0	0.8	37.5	MPX8250310*260***
8.2	41.5	25.0	38.0	0.8	37.5	MPX8250310*260***
10.0	41.0	22.0	37.0	0.8	37.5	MPX1060310*260***
10.0	41.5	27.5	37.5	0.8	37.5	MPX1060310*260***
10.0	41.0	26.0	41.0	0.8	37.5	MPX1060310*260***
10.0	41.5	27.5	41.0	0.8	37.5	MPX1060310*260***



APPLICATIONS

- X2 class for interference suppression
- Widely used in across-the- line, EMI suppression
- Widely used in Clamping,AC and Harmonic Filtering,UPS Systems, Solar Inverter with LCL Filter and Motor Drive

Technical data

Climatic Category / Passive Flammability Category	40/110/56/B		
Operating temperature range	-40°C~ +110°C		
Capacitance range	0.01~25μF		
Rated voltage	AC 350V,50~60Hz		
Maximum continuous DC voltage	DC 630V		
Cap.tol	±5% (J) ; ±10% (K) ; ±20% (M)		
Dissipation factor	at	C _N ≤2.2μF	C _N > 2.2μF
	1KHz,20°C	1×10 ⁻³	3×10 ⁻³
insulation resistance	V test(VDC) 1min	C _N ≤0.33μF	C _N > 0.33μF
	100±15	≥100GΩ	≥30000s
DC test voltage	4.3U _R (DC), 2s		

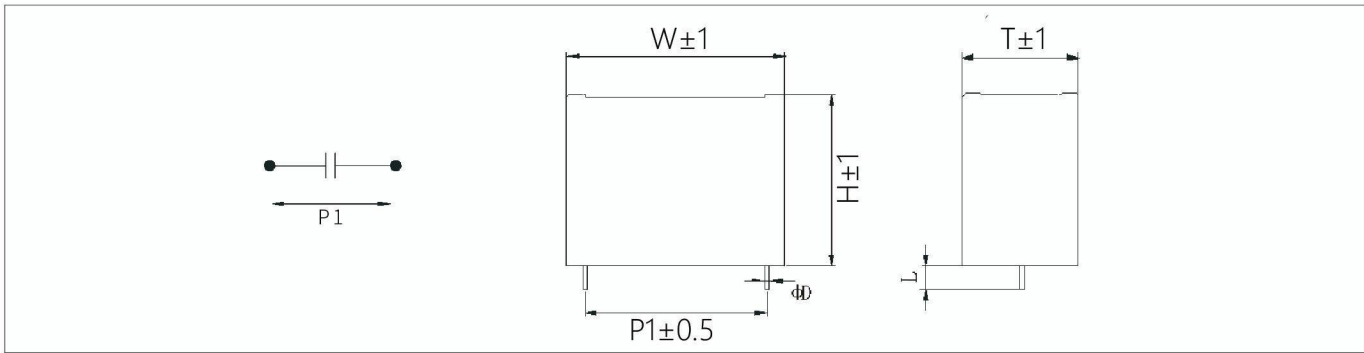


EMI Suppression Capacitors X2 series

THE DV/DT TABLE

Dv/dt (V/μs)					
P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm	P=52.5mm
475	340	200	150	100	75

THE CONTOUR MAP



PART NUMBER SYSTEM

Type code	Capacitance	Rated Voltage(AC)	Tolerance	Pin	Lead Pitch P1 (mm)	Lead Pitch P2 (mm)	Lead Pitch P2 (mm)	Internal code
1~3	4~6	7~10	11	12	13	14	15	16~17
MKP	105= 10×10 ⁵ pF =1μF	0350=350VAC	J=±5% K=±10% M=±20%	2 : 2Pin	2 : P1=10 3 : P1=15 4 : P1=22.5 5 : P1=27.5 6 : P1=37.5 7 : P1=52.5	0 : 无	1 : L=4 2 : L=15	01

Specification table

CN(μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number	CN(μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
0.010	13.0	4.0	9.0	0.6	10.0	MPX1030350*220***	0.047	13.0	6.0	12.0	0.6	10.0	MPX4730350*220***
0.012	13.0	4.0	9.0	0.6	10.0	MPX1230350*220***	0.056	13.0	5.0	11.0	0.6	10.0	MPX5630350*220***
0.015	13.0	4.0	9.0	0.6	10.0	MPX1530350*220***	0.056	13.0	6.0	12.0	0.6	10.0	MPX5630350*220***
0.018	13.0	4.0	9.0	0.6	10.0	MPX1830350*220***	0.068	13.0	6.0	12.0	0.6	10.0	MPX6830350*220***
0.022	13.0	4.0	9.0	0.6	10.0	MPX2230350*220***	0.10	13.0	7.0	13.0	0.6	10.0	MPX1040350*220***
0.027	13.0	4.0	9.0	0.6	10.0	MPX2730350*220***	0.010	17.5	5.0	9.5	0.6	15.0	MPX1030350*230***
0.027	13.0	5.0	11.0	0.6	10.0	MPX2730350*220***	0.012	17.5	5.0	9.5	0.6	15.0	MPX1230350*230***
0.033	13.0	4.0	9.0	0.6	10.0	MPX3320350*220***	0.015	17.5	5.0	9.5	0.6	15.0	MPX1530350*230***
0.033	13.0	5.0	11.0	0.6	10.0	MPX3320350*220***	0.018	17.5	5.0	9.5	0.6	15.0	MPX1830350*230***
0.039	13.0	5.0	11.0	0.6	10.0	MPX3930350*220***	0.022	17.5	5.0	9.5	0.6	15.0	MPX2230350*230***
0.047	13.0	5.0	11.0	0.6	10.0	MPX4730350*220***	0.027	17.5	5.0	9.5	0.6	15.0	MPX2730350*230***



Specification table

CN(μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number	CN(μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
0.033	17.5	5.0	9.5	0.6	15.0	MPX3330350*230***	0.47	26.5	10.0	18.5	0.8	22.5	MPX4740350*240***
0.039	17.5	5.0	9.5	0.6	15.0	MPX3930350*230***	0.56	26.5	8.5	17.0	0.8	22.5	MPX5640350*240***
0.047	17.5	5.0	9.5	0.6	15.0	MPX4720350*230***	0.56	26.5	9.0	18.5	0.8	22.5	MPX5640350*240***
0.047	17.5	5.0	11.0	0.6	15.0	MPX4720350*230***	0.56	26.5	10.0	18.5	0.8	22.5	MPX5640350*240***
0.056	17.5	5.0	9.5	0.6	15.0	MPX5620350*230***	0.68	26.5	8.5	17.0	0.8	22.5	MPX6840350*240***
0.056	17.5	5.0	11.0	0.6	15.0	MPX5630350*230***	0.68	26.5	10.0	18.5	0.8	22.5	MPX6840350*240***
0.068	17.5	5.0	9.5	0.6	15.0	MPX6830350*230***	0.68	26.5	11.0	20.0	0.8	22.5	MPX6840350*240***
0.068	17.5	6.0	12.0	0.6	15.0	MPX6830350*230***	0.68	26.5	11.0	21.0	0.8	22.5	MPX6840350*240***
0.082	17.5	5.0	9.5	0.6	15.0	MPX8230350*230***	0.82	26.5	10.0	18.5	0.8	22.5	MPX8240350*240***
0.082	17.5	6.0	12.0	0.6	15.0	MPX8230350*230***	0.82	26.5	11.0	20.0	0.8	22.5	MPX8240350*240***
0.10	17.5	5.0	11.0	0.6	15.0	MPX1040350*230***	0.82	26.5	12.0	22.0	0.8	22.5	MPX8240350*240***
0.10	17.5	6.0	12.0	0.6	15.0	MPX1040350*230***	1.0	26.5	12.0	22.0	0.8	22.5	MPX1050350*240***
0.10	17.5	7.5	13.5	0.6	15.0	MPX1040350*230***	1.0	26.5	13.5	23.0	0.8	22.5	MPX1050350*240***
0.12	17.5	6.0	12.0	0.6	15.0	MPX1240350*230***	1.2	26.5	12.0	22.0	0.8	22.5	MPX1250350*240***
0.12	17.5	7.5	13.5	0.6	15.0	MPX1240350*230***	1.2	26.5	13.5	23.0	0.8	22.5	MPX1250350*240***
0.15	17.5	6.0	12.0	0.6	15.0	MPX1540350*230***	1.2	26.5	14.5	24.5	0.8	22.5	MPX1250350*240***
0.15	17.5	7.5	13.5	0.6	15.0	MPX1540350*230***	1.5	26.5	14.5	24.5	0.8	22.5	MPX1550350*240***
0.15	17.5	8.5	14.5	0.6	15.0	MPX1540350*230***	1.5	26.5	13.5	23.0	0.8	22.5	MPX1550350*240***
0.18	17.5	7.5	13.5	0.6	15.0	MPX1840350*230***	1.5	26.5	15.5	24.5	0.8	22.5	MPX1550350*240***
0.18	17.5	8.5	14.5	0.6	15.0	MPX1840350*230***	1.5	26.5	14.5	29.5	0.8	22.5	MPX1550350*240***
0.22	17.5	7.5	13.5	0.6	15.0	MPX2240350*230***	1.8	26.5	15.5	24.5	0.8	22.5	MPX1850350*240***
0.22	17.5	8.5	14.5	0.6	15.0	MPX2240350*230***	1.8	26.5	15.5	31.0	0.8	22.5	MPX1850350*240***
0.22	17.5	11.0	16.0	0.6	15.0	MPX2240350*230***	2.2	26.5	12.0	28.0	0.8	22.5	MPX2250350*240***
0.27	17.5	8.5	14.5	0.6	15.0	MPX2740350*230***	2.2	26.5	14.5	29.5	0.8	22.5	MPX2250350*240***
0.27	17.5	10.0	16.0	0.8	15.0	MPX2740350*230***	2.2	26.5	15.5	24.5	0.8	22.5	MPX2250350*240***
0.33	17.5	8.5	14.5	0.6	15.0	MPX3340350*230***	2.2	26.5	15.5	31.0	0.8	22.5	MPX2250350*240***
0.33	17.5	10.0	16.0	0.6	15.0	MPX3340350*230***	0.22	32.0	9.0	18.0	0.8	27.5	MPX2240350*250***
0.33	17.5	11.0	19.0	0.8	15.0	MPX3340350*230***	0.27	32.0	9.0	18.0	0.8	27.5	MPX2740350*250***
0.39	17.5	10.0	16.0	0.8	15.0	MPX3940350*230***	0.33	32.0	9.0	18.0	0.8	27.5	MPX3340350*250***
0.39	17.5	10.0	18.0	0.8	15.0	MPX3940350*230***	0.39	32.0	9.0	18.0	0.8	27.5	MPX3940350*250***
0.47	17.5	11.0	19.0	0.8	15.0	MPX4740350*230***	0.47	32.0	9.0	18.0	0.8	27.5	MPX4740350*250***
0.10	26.5	6.0	15.0	0.8	22.5	MPX1040350*240***	0.56	32.0	9.0	18.0	0.8	27.5	MPX5640350*250***
0.12	26.5	6.0	15.0	0.8	22.5	MPX1240350*240***	0.68	32.0	9.0	18.0	0.8	27.5	MPX6840350*250***
0.15	26.5	6.0	15.0	0.8	22.5	MPX1540350*240***	0.68	32.0	11.0	20.0	0.8	27.5	MPX6840350*250***
0.18	26.5	6.0	15.0	0.8	22.5	MPX1840350*240***	0.82	32.0	9.0	18.0	0.8	27.5	MPX8240350*250***
0.22	26.5	6.0	15.0	0.8	22.5	MPX2240350*240***	1.0	32.0	9.0	18.0	0.8	27.5	MPX1050350*250***
0.27	26.5	6.0	15.0	0.8	22.5	MPX2740350*240***	1.0	32.0	11.0	20.0	0.8	27.5	MPX1050350*250***
0.33	26.5	6.0	15.0	0.8	22.5	MPX3340350*240***	1.0	32.0	13.0	22.0	0.8	27.5	MPX1050350*250***
0.33	26.5	7.0	16.0	0.8	22.5	MPX3340350*240***	1.2	32.0	11.0	20.0	0.8	27.5	MPX1250350*250***
0.33	26.5	9.0	17.0	0.8	22.5	MPX3340350*240***	1.2	32.0	13.0	22.0	0.8	27.5	MPX1250350*250***
0.39	26.5	6.0	15.0	0.8	22.5	MPX3940350*240***	1.5	32.0	11.0	20.0	0.8	27.5	MPX1550350*250***
0.39	26.5	8.5	17.0	0.8	22.5	MPX3940350*240***	1.5	32.0	13.0	22.0	0.8	27.5	MPX1550350*250***
0.39	26.5	9.0	18.5	0.8	22.5	MPX3940350*240***	1.5	32.0	13.0	25.0	0.8	27.5	MPX1550350*250***
0.47	26.5	7.0	16.0	0.8	22.5	MPX4740350*240***	1.5	32.0	15.0	24.5	0.8	27.5	MPX1550350*250***
0.47	26.5	8.5	17.0	0.8	22.5	MPX4740350*240***	1.8	32.0	13.0	22.0	0.8	27.5	MPX1850350*250***
0.47	26.5	9.0	18.5	0.8	22.5	MPX4740350*240***	1.8	32.0	13.0	25.0	0.8	27.5	MPX1850350*250***



EMI Suppression Capacitors X2 series

Specification table

CN(μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
1.8	32.0	14.0	28.0	0.8	27.5	MPX1850350*250***
1.8	32.0	15.0	24.5	0.8	27.5	MPX1850350*250***
2.2	32.0	15.0	24.5	0.8	27.5	MPX2250350*250***
2.2	32.0	16.0	30.0	0.8	27.5	MPX2250350*250***
2.7	32.0	14.0	28.0	0.8	27.5	MPX2750350*250***
2.7	32.0	16.0	30.0	0.8	27.5	MPX2750350*250***
2.7	32.0	18.0	33.0	0.8	27.5	MPX2750350*250***
3.3	32.0	16.0	30.0	0.8	27.5	MPX3350350*250***
3.3	32.0	19.0	29.0	0.8	27.5	MPX3350350*250***
3.3	32.0	18.0	33.0	0.8	27.5	MPX3350350*250***
3.3	32.0	18.0	38.0	0.8	27.5	MPX3350350*250***
3.9	32.0	18.0	33.0	0.8	27.5	MPX3950350*250***
3.9	32.0	22.0	37.0	0.8	27.5	MPX3950350*250***
4.7	32.0	18.0	33.0	0.8	27.5	MPX4750350*250***
4.7	32.0	20.0	34.0	0.8	27.5	MPX4750350*250***
4.7	32.0	20.0	34.0	0.8	27.5	MPX4750350*250***
4.7	32.0	22.0	37.0	0.8	27.5	MPX4750350*250***
4.7	32.0	24.0	38.0	0.8	27.5	MPX4750350*250***
5.6	32.0	22.0	37.0	0.8	27.5	MPX5650350*250***
6.8	32.0	22.0	37.0	0.8	27.5	MPX6850350*250***
6.8	32.0	24.0	40.5	0.8	27.5	MPX6850350*250***
0.33	41.0	11.0	22.0	1.0	37.5	MPX3340350*260***
0.39	41.0	11.0	22.0	1.0	37.5	MPX3940350*260***
0.47	41.0	11.0	22.0	1.0	37.5	MPX4740350*260***
0.56	41.0	11.0	22.0	1.0	37.5	MPX5640350*260***
0.68	41.0	11.0	22.0	1.0	37.5	MPX6840350*260***
0.82	41.0	11.0	22.0	1.0	37.5	MPX8240350*260***
1.0	41.0	11.0	22.0	1.0	37.5	MPX1050350*260***
1.2	41.0	11.0	22.0	1.0	37.5	MPX1250350*260***
1.5	41.0	13.0	24.0	1.0	37.5	MPX1550350*260***
1.5	41.0	11.0	22.0	1.0	37.5	MPX1550350*260***
1.8	41.0	11.0	22.0	1.0	37.5	MPX1850350*260***
1.8	41.0	13.0	24.0	1.0	37.5	MPX1850350*260***
1.8	41.0	15.0	26.0	1.0	37.5	MPX1850350*260***
2.2	41.0	13.0	24.0	1.0	37.5	MPX2250350*260***
2.2	41.0	15.0	26.0	1.0	37.5	MPX2250350*260***
2.7	41.0	15.0	26.0	1.0	37.5	MPX2750350*260***
2.7	41.0	16.0	30.0	1.0	37.5	MPX2750350*260***
3.3	42.0	14.0	28.0	1.0	37.5	MPX3350350*260***
3.3	41.0	15.0	26.0	1.0	37.5	MPX3350350*260***
3.3	41.0	17.0	28.0	1.0	37.5	MPX3350350*260***
3.3	41.0	16.0	30.0	1.0	37.5	MPX3350350*260***
3.3	41.0	17.0	32.0	1.0	37.5	MPX3350350*260***
3.9	41.0	16.0	30.0	1.0	37.5	MPX3950350*260***
3.9	41.0	17.0	32.0	1.0	37.5	MPX3950350*260***
3.9	41.0	18.5	33.5	1.0	37.5	MPX3950350*260***

CN(μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
3.9	41.0	20.0	34.0	1.0	37.5	MPX3950350*260***
4.7	41.0	16.0	30.0	1.0	37.5	MPX4750350*260***
4.7	41.0	17.0	32.0	1.0	37.5	MPX4750350*260***
4.7	41.0	20.0	34.0	1.0	37.5	MPX4750350*260***
4.7	41.0	22.0	37.0	1.0	37.5	MPX4750350*260***
5.6	41.0	18.5	33.5	1.0	37.5	MPX5650350*260***
5.6	41.0	22.0	37.0	1.0	37.5	MPX5650350*260***
6.8	41.0	20.0	34.0	1.0	37.5	MPX6850350*260***
6.8	41.0	22.0	37.0	1.0	37.5	MPX6850350*260***
6.8	41.0	24.0	37.0	1.0	37.5	MPX6850350*260***
6.8	41.0	26.0	37.0	1.0	37.5	MPX6850350*260***
8.2	41.0	22.0	37.0	1.0	37.5	MPX8250350*260***
8.2	41.10	26.0	37.0	1.0	37.5	MPX8250350*260***
8.2	41.0	26.0	41.0	1.0	37.5	MPX8250350*260***
8.2	41.0	28.0	43.0	1.0	37.5	MPX8250350*260***
10.0	41.0	26.0	41.0	1.0	37.5	MPX1060350*260***
10.0	42.0	30.0	45.0	1.0	37.5	MPX1060350*260***
12.0	41.0	28.0	43.0	1.0	37.5	MPX1260350*260***
12.0	41.0	30.0	45.0	1.0	37.5	MPX1260350*260***
15.0	42.0	30.0	45.0	1.0	37.5	MPX1560350*260***
15.0	42.0	30.0	50.0	1.0	37.5	MPX1560350*260***
15.0	57.0	30.0	45.0	1.2	52.5	MPX1560350*270***
15.0	57.0	30.0	48.0	1.2	52.5	MPX1560350*270***
18.0	57.0	30.0	45.0	1.2	52.5	MPX1860350*270***
18.0	57.0	35.0	45.0	1.2	52.5	MPX1860350*270***
18.0	57.0	34.0	48.5	1.2	52.5	MPX1860350*270***
20.0	57.0	30.0	45.0	1.2	52.5	MPX2060350*270***
20.0	57.0	35.0	50.0	1.2	52.5	MPX2060350*270***
20.0	57.0	37.5	52.0	1.2	52.5	MPX2060350*270***
25.0	57.0	35.0	50.0	1.2	52.5	MPX2560350*270***

