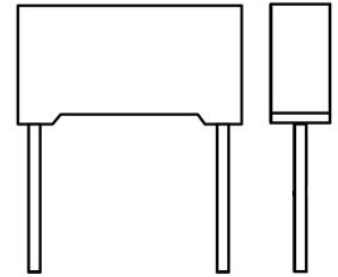


**FEATURES**

- Non-inductive construction.
- Self-healing.
- Flame-retardant plastic case and epoxy resin (compliance with UL 94V-0).
- High moisture-resistance.
- Good solderability (plated with 100% Matte Sn).

**APPLICATIONS**

- Line-by-pass.
- Antenna coupling.
- Across-the-line and spark killer circuits.
- Also available for EMI filter and switching power supply applications.







**PART NUMBER EXAMPLE**

<b>MPXM</b>	<b>-</b>	<b>305</b>	<b>/</b>	<b>103</b>	<b>K</b>	<b>10</b>	<b>A</b>	<b>F</b>
Type		Rated voltage		Capacitance code (pF)	Tolerance code	Lead space	Thickness code	RoHS compliant
Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).								

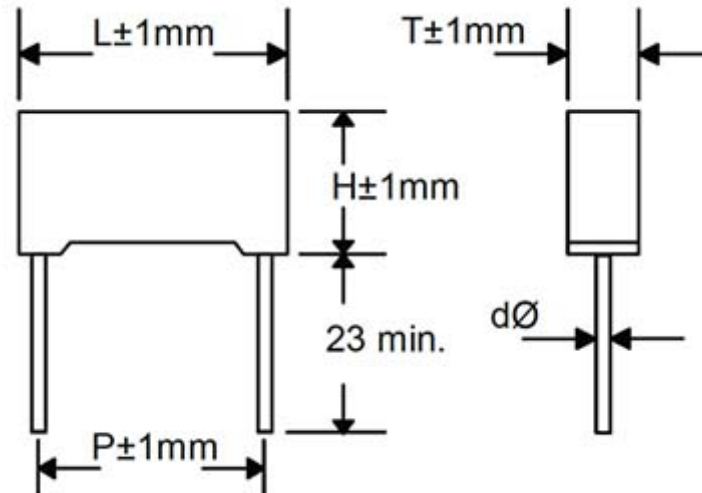
**GENERAL SPECIFICATIONS**

Item	Performance
Operating temperature	-40°C to +110°C
Capacitance range	0.01µF to 4.7µF
Capacitance tolerance	10%
Rated voltage range (VACrms)	275 VAC to 305 VAC
Withstanding voltage (between leads)	2,000VDC for 1 second.
Minimum insulation resistance	After 2 minutes (minimum) at 23°C: IR ≥ 30000 Mohm measured @ 100 VDC ± 15 VDC (C-0.33µF). IR ≥ 10000 Mohm • µF measured @ 100 VDC ± 15 VDC (C > 0.33µF).

**SAFETY DETAIL SPECIFICATION**

Country	Reference Standards	File Number	Safety Logo
UL (US & Canada)	UL 60384-14:2014 CSA-E60384-14:09	E164458	
VDE (Germany)	EN 60384-14:2013	40014111	
ENEC (EU)	EN 60384-14:2013	40030152	
CQC (China)	EN 60384-14:2013	10001048706	

**DIMENSIONS**



**STANDARD PRODUCTS**

Part Number	Cap. (µF)	Voltage AC	Dimensions (mm)						
			L	H	T	d	LS	DV/DT	
MPXM-275/103K10AF	0.010	275	13.0	9.0	4.0	0.6	10.0	400	
MPXM-275/103K10BF	0.010	275	13.0	11.0	5.0	0.6	10.0	400	
MPXM-275/103K15AF	0.010	275	18.0	11.0	5.0	0.8	15.0	300	
MPXM-275/123K10AF	0.012	275	13.0	9.0	4.0	0.6	10.0	400	
MPXM-275/123K10BF	0.012	275	13.0	11.0	5.0	0.6	10.0	400	
MPXM-275/123K15AF	0.012	275	18.0	11.0	5.0	0.8	15.0	300	
MPXM-275/153K10AF	0.015	275	13.0	9.0	4.0	0.6	10.0	400	
MPXM-275/153K10BF	0.015	275	13.0	11.0	5.0	0.6	10.0	400	
MPXM-275/153K15AF	0.015	275	18.0	11.0	5.0	0.8	15.0	300	
MPXM-275/183K10AF	0.018	275	13.0	9.0	4.0	0.6	10.0	400	
MPXM-275/183K15AF	0.018	275	18.0	11.0	5.0	0.8	15.0	300	

Part Number	Cap. (µF)	Voltage AC	Dimensions (mm)					
			L	H	T	d	LS	DV/DT
MPXM-275/223K10AF	0.022	275	13.0	9.0	4.0	0.6	10.0	400
MPXM-275/223K10BF	0.022	275	13.0	11.0	5.0	0.6	10.0	400
MPXM-275/223K15AF	0.022	275	18.0	11.0	5.0	0.8	15.0	300
MPXM-275/273K10AF	0.027	275	13.0	9.0	4.0	0.6	10.0	400
MPXM-275/273K10BF	0.027	275	13.0	11.0	5.0	0.6	10.0	400
MPXM-275/273K15AF	0.027	275	18.0	11.0	5.0	0.8	15.0	300
MPXM-275/333K10AF	0.033	275	13.0	9.0	4.0	0.6	10.0	400
MPXM-275/333K10BF	0.033	275	13.0	11.0	5.0	0.6	10.0	400
MPXM-275/333K15AF	0.033	275	18.0	11.0	5.0	0.8	15.0	300
MPXM-275/393K10AF	0.039	275	13.0	9.0	4.0	0.6	10.0	400
MPXM-275/393K10BF	0.039	275	13.0	12.0	6.0	0.6	10.0	400
MPXM-275/393K15AF	0.039	275	18.0	11.0	5.0	0.8	15.0	300
MPXM-275/473K10AF	0.047	275	13.0	9.0	4.0	0.6	10.0	400
MPXM-275/473K10BF	0.047	275	13.0	12.0	6.0	0.6	10.0	400
MPXM-275/473K15AF	0.047	275	18.0	11.0	5.0	0.8	15.0	300
MPXM-275/563K10AF	0.056	275	13.0	11.0	5.0	0.6	10.0	400
MPXM-275/563K10BF	0.056	275	13.0	13.0	7.0	0.6	10.0	400
MPXM-275/563K15AF	0.056	275	18.0	11.0	5.0	0.8	15.0	300
MPXM-275/683K10AF	0.068	275	13.0	11.0	5.0	0.6	10.0	400
MPXM-275/683K10BF	0.068	275	13.0	13.0	7.0	0.6	10.0	400
MPXM-275/683K15AF	0.068	275	18.0	11.0	5.0	0.8	15.0	300
MPXM-275/823K10AF	0.082	275	13.0	11.0	5.0	0.6	10.0	400
MPXM-275/823K10BF	0.082	275	13.0	14.0	8.0	0.6	10.0	400
MPXM-275/823K15AF	0.082	275	18.0	12.0	6.0	0.8	15.0	300
MPXM-275/104K10AF	0.100	275	13.0	11.0	5.0	0.6	10.0	400
MPXM-275/104K10BF	0.100	275	13.0	12.0	6.0	0.6	10.0	400
MPXM-275/104K10CF	0.100	275	13.0	16.0	8.0	0.6	10.0	400
MPXM-275/104K15AF	0.100	275	18.0	11.0	5.0	0.8	15.0	300
MPXM-275/104K15BF	0.100	275	18.0	12.0	6.0	0.8	15.0	300
MPXM-275/124K10AF	0.120	275	13.0	12.0	6.0	0.6	10.0	400
MPXM-275/124K15AF	0.120	275	18.0	12.0	6.0	0.8	15.0	300
MPXM-275/124K15BF	0.120	275	18.0	13.5	7.5	0.8	15.0	300
MPXM-275/154K10AF	0.150	275	13.0	13.0	7.0	0.6	10.0	400
MPXM-275/154K10BF	0.150	275	13.0	14.0	8.0	0.6	10.0	400
MPXM-275/154K12AF	0.150	275	15.0	11.5	6.0	0.6	12.5	300
MPXM-275/154K15AF	0.150	275	18.0	12.0	6.0	0.8	15.0	300
MPXM-275/154K15BF	0.150	275	18.0	13.5	7.5	0.8	15.0	300
MPXM-275/154K15CF	0.150	275	18.0	14.5	8.5	0.8	15.0	300
MPXM-275/184K10AF	0.180	275	13.0	14.0	8.0	0.6	10.0	400
MPXM-275/184K15AF	0.180	275	18.0	13.5	7.5	0.8	15.0	300
MPXM-275/224K10AF	0.220	275	13.0	14.0	8.0	0.6	10.0	400
MPXM-275/224K12AF	0.220	275	15.0	12.5	7.0	0.6	12.5	300

Part Number	Cap. (µF)	Voltage AC	Dimensions (mm)					
			L	H	T	d	LS	DV/DT
MPXM-275/224K15AF	0.220	275	18.0	13.5	7.5	0.8	15.0	300
MPXM-275/224K15BF	0.220	275	18.0	14.5	8.5	0.8	15.0	300
MPXM-275/224K15CF	0.220	275	18.0	15.5	9.5	0.8	15.0	300
MPXM-275/224K22AF	0.220	275	26.5	15.0	6.0	0.8	22.5	180
MPXM-275/224K22BF	0.220	275	26.5	16.5	7.0	0.8	22.5	180
MPXM-275/274K15AF	0.270	275	18.0	13.0	6.3	0.8	15.0	300
MPXM-275/274K15BF	0.270	275	18.0	15.5	9.5	0.8	15.0	300
MPXM-275/274K22AF	0.270	275	26.5	17.0	8.5	0.8	22.5	180
MPXM-275/334K12AF	0.330	275	15.0	14.0	8.5	0.8	12.5	300
MPXM-275/334K15AF	0.330	275	18.0	13.5	7.5	0.8	15.0	300
MPXM-275/334K15BF	0.330	275	18.0	15.0	8.5	0.8	15.0	300
MPXM-275/334K15CF	0.330	275	18.0	16.5	10.0	0.8	15.0	300
MPXM-275/334K15DF	0.330	275	18.0	19.0	11.0	0.8	15.0	300
MPXM-275/334K22AF	0.330	275	26.5	16.5	7.0	0.8	22.5	180
MPXM-275/334K22BF	0.330	275	26.5	17.0	8.5	0.8	22.5	180
MPXM-275/394K12AF	0.390	275	15.0	15.0	9.0	0.8	12.5	300
MPXM-275/394K15AF	0.390	275	18.0	13.5	7.5	0.8	15.0	300
MPXM-275/394K15BF	0.390	275	18.0	19.0	11.0	0.8	15.0	300
MPXM-275/394K22AF	0.390	275	26.5	17.0	8.5	0.8	22.5	180
MPXM-275/394K22BF	0.390	275	26.5	19.0	10.0	0.8	22.5	180
MPXM-275/474K12AF	0.470	275	15.0	16.0	10.0	0.8	12.5	300
MPXM-275/474K15AF	0.470	275	18.0	16.5	8.5	0.8	15.0	300
MPXM-275/474K15BF	0.470	275	18.0	15.5	9.5	0.8	15.0	300
MPXM-275/474K15CF	0.470	275	18.0	18.5	11.0	0.8	15.0	300
MPXM-275/474K22AF	0.470	275	26.5	17.0	8.5	0.8	22.5	180
MPXM-275/474K22BF	0.470	275	26.5	19.0	10.0	0.8	22.5	180
MPXM-275/474K27AF	0.470	275	31.0	18.0	9.0	0.8	27.5	120
MPXM-275/474K27BF	0.470	275	32.0	20.0	11.0	0.8	27.5	120
MPXM-275/564K12AF	0.560	275	15.0	17.0	11.0	0.8	12.5	300
MPXM-275/564K15AF	0.560	275	18.0	15.5	9.5	0.8	15.0	300
MPXM-275/564K15BF	0.560	275	18.0	19.0	11.0	0.8	15.0	300
MPXM-275/564K22AF	0.560	275	26.5	19.0	10.0	0.8	22.5	180
MPXM-275/564K27AF	0.560	275	32.0	18.0	9.0	0.8	27.5	120
MPXM-275/564K27BF	0.560	275	32.0	20.0	11.0	0.8	27.5	120
MPXM-275/684K15AF	0.680	275	18.0	18.0	10.0	0.8	15.0	300
MPXM-275/684K22AF	0.680	275	26.5	19.0	10.0	0.8	22.5	180
MPXM-275/684K27AF	0.680	275	32.0	18.0	9.0	0.8	27.5	120
MPXM-275/684K27BF	0.680	275	32.0	20.0	11.0	0.8	27.5	120
MPXM-275/824K15AF	0.820	275	18.0	19.0	11.0	0.8	15.0	300
MPXM-275/824K22AF	0.820	275	26.5	20.0	11.0	0.8	22.5	180
MPXM-275/824K27AF	0.820	275	32.0	20.0	11.0	0.8	27.5	120
MPXM-275/824K27BF	0.820	275	32.0	22.0	13.0	0.8	27.5	120

Part Number	Cap. (µF)	Voltage AC	Dimensions (mm)					
			L	H	T	d	LS	DV/DT
MPXM-275/105K15AF	1.000	275	18.0	21.0	12.5	0.8	15.0	300
MPXM-275/105K22AF	1.000	275	26.5	17.0	8.5	0.8	22.5	180
MPXM-275/105K22BF	1.000	275	26.5	23.0	14.0	0.8	22.5	180
MPXM-275/105K27AF	1.000	275	32.0	20.0	11.0	0.8	27.5	120
MPXM-275/105K27BF	1.000	275	32.0	22.0	13.0	0.8	27.5	120
MPXM-275/105K27CF	1.000	275	32.0	25.0	16.0	0.8	27.5	120
MPXM-275/125K22AF	1.200	275	26.5	19.0	10.0	0.8	22.5	180
MPXM-275/125K27AF	1.200	275	32.0	22.0	13.0	0.8	27.5	120
MPXM-275/155K22AF	1.500	275	26.5	20.0	11.0	0.8	22.5	180
MPXM-275/155K22BF	1.500	275	26.5	23.0	13.0	0.8	22.5	180
MPXM-275/155K27AF	1.500	275	32.0	22.0	13.0	0.8	27.5	120
MPXM-275/155K27BF	1.500	275	32.0	24.5	15.0	0.8	27.5	120
MPXM-275/185K22AF	1.800	275	26.5	23.0	13.0	0.8	22.5	180
MPXM-275/185K27AF	1.800	275	32.0	24.5	15.0	0.8	27.5	120
MPXM-275/205K22AF	2.000	275	26.5	23.0	13.0	0.8	22.5	180
MPXM-275/205K27AF	2.000	275	32.0	30.0	15.0	0.8	27.5	120
MPXM-275/225K22AF	2.200	275	26.5	23.0	14.0	0.8	22.5	180
MPXM-275/225K27AF	2.200	275	32.0	30.0	15.0	0.8	27.5	120
MPXM-275/225K31AF	2.200	275	37.0	26.0	15.0	0.8	31.5	70
MPXM-275/225K32AF	2.200	275	37.0	26.0	15.0	0.8	32.5	70
MPXM-275/225K36AF	2.200	275	41.0	28.5	16.0	1.0	36.5	70
MPXM-275/225K37AF	2.200	275	41.0	28.5	16.0	1.0	37.5	70
MPXM-275/335K27AF	3.300	275	32.0	28.0	18.0	0.8	27.5	120
MPXM-275/475K37AF	4.700	275	41.5	31.4	24.0	1.0	37.5	70
MPXM-305/103K10AF	0.010	305	13.0	9.0	4.0	0.6	10.0	400
MPXM-305/103K10BF	0.010	305	13.0	11.0	5.0	0.6	10.0	400
MPXM-305/103K15AF	0.010	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/123K10AF	0.012	305	13.0	9.0	4.0	0.6	10.0	400
MPXM-305/123K10BF	0.012	305	13.0	11.0	5.0	0.6	10.0	400
MPXM-305/123K15AF	0.012	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/153K10AF	0.015	305	13.0	9.0	4.0	0.6	10.0	400
MPXM-305/153K10BF	0.015	305	13.0	11.0	5.0	0.6	10.0	400
MPXM-305/153K15AF	0.015	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/183K10AF	0.018	305	13.0	9.0	4.0	0.6	10.0	400
MPXM-305/183K15AF	0.018	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/223K10AF	0.022	305	13.0	9.0	4.0	0.6	10.0	400
MPXM-305/223K10BF	0.022	305	13.0	11.0	5.0	0.6	10.0	400
MPXM-305/223K15AF	0.022	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/273K10AF	0.027	305	13.0	9.0	4.0	0.6	10.0	400
MPXM-305/273K10BF	0.027	305	13.0	11.0	5.0	0.6	10.0	400
MPXM-305/273K15AF	0.027	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/333K10AF	0.033	305	13.0	9.0	4.0	0.6	10.0	400

Part Number	Cap. (µF)	Voltage AC	Dimensions (mm)					
			L	H	T	d	LS	DV/DT
MPXM-305/333K10BF	0.033	305	13.0	11.0	5.0	0.6	10.0	400
MPXM-305/333K15AF	0.033	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/393K10AF	0.039	305	13.0	9.0	4.0	0.6	10.0	400
MPXM-305/393K10BF	0.039	305	13.0	12.0	6.0	0.6	10.0	400
MPXM-305/393K15AF	0.039	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/473K10AF	0.047	305	13.0	12.0	6.0	0.6	10.0	400
MPXM-305/473K15AF	0.047	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/563K10AF	0.056	305	13.0	11.0	5.0	0.6	10.0	400
MPXM-305/563K10BF	0.056	305	13.0	13.0	7.0	0.6	10.0	400
MPXM-305/563K15AF	0.056	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/683K10AF	0.068	305	13.0	11.0	5.0	0.6	10.0	400
MPXM-305/683K10BF	0.068	305	13.0	13.0	7.0	0.6	10.0	400
MPXM-305/683K15AF	0.068	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/823K10AF	0.082	305	13.0	14.0	8.0	0.6	10.0	400
MPXM-305/823K15AF	0.082	305	18.0	12.0	6.0	0.8	15.0	300
MPXM-305/104K10AF	0.100	305	13.0	12.0	6.0	0.6	10.0	400
MPXM-305/104K10BF	0.100	305	13.0	16.0	8.0	0.6	10.0	400
MPXM-305/104K15AF	0.100	305	18.0	11.0	5.0	0.8	15.0	300
MPXM-305/104K15BF	0.100	305	18.0	12.0	6.0	0.8	15.0	300
MPXM-305/124K15AF	0.120	305	18.0	12.0	6.0	0.8	15.0	300
MPXM-305/124K15BF	0.120	305	18.0	13.5	7.5	0.8	15.0	300
MPXM-305/154K10AF	0.150	305	13.0	14.0	8.0	0.6	10.0	400
MPXM-305/154K15AF	0.150	305	18.0	12.0	6.0	0.8	15.0	300
MPXM-305/154K15BF	0.150	305	18.0	13.5	7.5	0.8	15.0	300
MPXM-305/154K15CF	0.150	305	18.0	14.5	8.5	0.8	15.0	300
MPXM-305/184K15AF	0.180	305	18.0	13.5	7.5	0.8	15.0	300
MPXM-305/224K15AF	0.220	305	18.0	13.5	7.5	0.8	15.0	300
MPXM-305/224K15BF	0.220	305	18.0	14.5	8.5	0.8	15.0	300
MPXM-305/224K15CF	0.220	305	18.0	15.5	9.5	0.8	15.0	300
MPXM-305/224K22AF	0.220	305	26.5	15.0	6.0	0.8	22.5	180
MPXM-305/224K22BF	0.220	305	26.5	16.5	7.0	0.8	22.5	180
MPXM-305/274K15AF	0.270	305	18.0	15.5	9.5	0.8	15.0	300
MPXM-305/274K22AF	0.270	305	26.5	17.0	8.5	0.8	22.5	180
MPXM-305/334K15AF	0.330	305	18.0	15.0	8.5	0.8	15.0	300
MPXM-305/334K15BF	0.330	305	18.0	16.5	10.0	0.8	15.0	300
MPXM-305/334K15CF	0.330	305	18.0	19.0	11.0	0.8	15.0	300
MPXM-305/334K22AF	0.330	305	26.5	16.5	7.0	0.8	22.5	180
MPXM-305/334K22BF	0.330	305	26.5	17.0	8.5	0.8	22.5	180
MPXM-305/394K15AF	0.390	305	18.0	19.0	11.0	0.8	15.0	300
MPXM-305/394K22AF	0.390	305	26.5	17.0	8.5	0.8	22.5	180
MPXM-305/394K22BF	0.390	305	26.5	19.0	10.0	0.8	22.5	180
MPXM-305/474K15AF	0.470	305	18.0	18.5	11.0	0.8	15.0	300

Part Number	Cap. (µF)	Voltage AC	Dimensions (mm)					
			L	H	T	d	LS	DV/DT
MPXM-305/474K22AF	0.470	305	26.5	17.0	8.5	0.8	22.5	180
MPXM-305/474K22BF	0.470	305	26.5	19.0	10.0	0.8	22.5	180
MPXM-305/474K27AF	0.470	305	31.0	18.0	9.0	0.8	27.5	120
MPXM-305/474K27BF	0.470	305	32.0	20.0	11.0	0.8	27.5	120
MPXM-305/564K15AF	0.560	305	18.0	19.0	11.0	0.8	15.0	300
MPXM-305/564K22AF	0.560	305	26.5	19.0	10.0	0.8	22.5	180
MPXM-305/564K27AF	0.560	305	32.0	18.0	9.0	0.8	27.5	120
MPXM-305/564K27BF	0.560	305	32.0	20.0	11.0	0.8	27.5	120
MPXM-305/684K22AF	0.680	305	26.5	19.0	10.0	0.8	22.5	180
MPXM-305/684K27AF	0.680	305	32.0	18.0	9.0	0.8	27.5	120
MPXM-305/684K27BF	0.680	305	32.0	20.0	11.0	0.8	27.5	120
MPXM-305/824K22AF	0.820	305	26.5	20.0	11.0	0.8	22.5	180
MPXM-305/824K27AF	0.820	305	32.0	20.0	11.0	0.8	27.5	120
MPXM-305/824K27BF	0.820	305	32.0	22.0	13.0	0.8	27.5	120
MPXM-305/105K22AF	1.000	305	26.5	23.0	14.0	0.8	22.5	180
MPXM-305/105K27AF	1.000	305	32.0	20.0	11.0	0.8	27.5	120
MPXM-305/105K27BF	1.000	305	32.0	22.0	13.0	0.8	27.5	120
MPXM-305/105K27CF	1.000	305	32.0	25.0	16.0	0.8	27.5	120
MPXM-305/125K22AF	1.200	305	26.5	19.0	10.0	0.8	22.5	180
MPXM-305/125K27AF	1.200	305	32.0	22.0	13.0	0.8	27.5	120
MPXM-305/155K22AF	1.500	305	26.5	23.0	13.0	0.8	22.5	180
MPXM-305/155K27AF	1.500	305	32.0	22.0	13.0	0.8	27.5	120
MPXM-305/155K27BF	1.500	305	32.0	24.5	15.0	0.8	27.5	120
MPXM-305/185K27AF	1.800	305	32.0	24.5	15.0	0.8	27.5	120
MPXM-305/205K27AF	2.000	305	32.0	30.0	15.0	0.8	27.5	120
MPXM-305/225K27AF	2.200	305	32.0	30.0	15.0	0.8	27.5	120
MPXM-305/225K31AF	2.200	305	37.0	26.0	15.0	0.8	31.5	70
MPXM-305/225K32AF	2.200	305	37.0	26.0	15.0	0.8	32.5	70
MPXM-305/225K36AF	2.200	305	41.0	28.5	16.0	1.0	36.5	70
MPXM-305/225K37AF	2.200	305	41.0	28.5	16.0	1.0	37.5	70
MPXM-305/335K27AF	3.300	305	32.0	28.0	18.0	0.8	27.5	120
MPXM-305/475K37AF	4.700	305	41.5	31.4	24.0	1.0	37.5	70