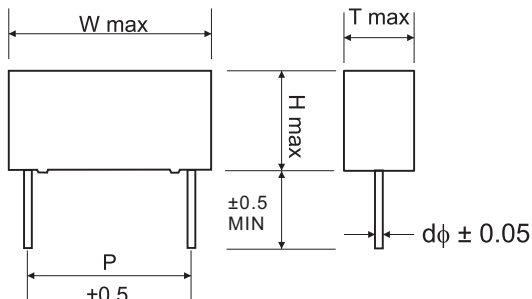


INTRODUCTION

MKP-U series capacitors are constructed specifically for difficult applications, such as smart meters and other high temperature and high humidity outdoor applications. They feature a very long operational life and excellent temperature stability.



FEATURES

- 310VAC, X2 Class
- Very Long Life
- Tough environment construction
- Flame-retardant plastic case and epoxy resin (compliant to UL 94V-0 rated)
- Excellent for power meter applications

RECOGNIZATION

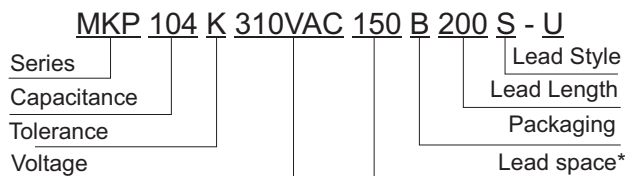
Agency	File number	Monogram
UL/CUL	E346827	
ENEC	SE/11048-3	
CQC	CQC11001060989	

ELECTRICAL CHARACTERISTICS

Parameter	Specification
Operating Temperature Range	-40°C ~ +110°C
Capacitance Range	0.047µF ~ 2.2µF
Capacitance Tolerance	±5% (J), ±10% (K), ±20% (M)
Rate Voltage (50-60Hz)	310VAC
Dissipation Factor	0.1% max at 1KHz, 25°C
Insulation Resistance	≥15000MΩ at DC100V (C≤0.33µF)
	≥5000MΩ x µF at DC100V (C>0.33µF)
Climatic Category	40/110/56

NOTE: See MKP type for standard X2 application
See MKP-P type for reduced size X2 application

PART NUMBER EXAMPLE



* Leadspace is straight lead non-formed original leadspace.

LEAD STYLE

Code	Style
S	Straight
K	Kink-In (Stand Off)
F	Form Out**
I	Form In**

** For Bulk packaging with formed leads, add an additional 3 digit lead spacing code at end of part number.

STRAIGHT LEAD SPACING (P)

* Lead space is straight non-formed original lead space.

mm	15	22.5	27.5	37.5
Code	150	225	275	375
dv/dt *	300	180	120	100

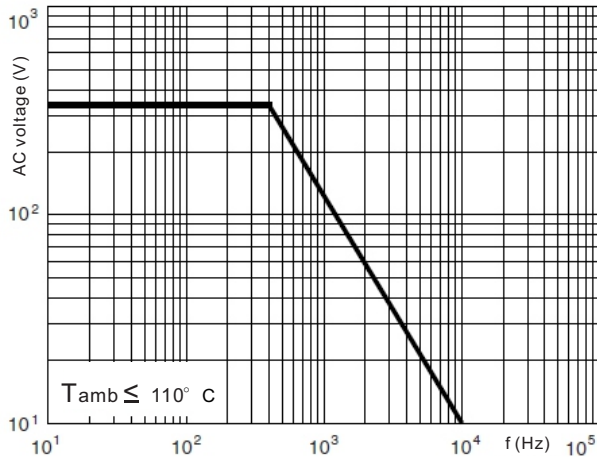
* dV/dt (v/µSec) at 630Vdc

LEAD LENGTH FROM SEATING PLANE

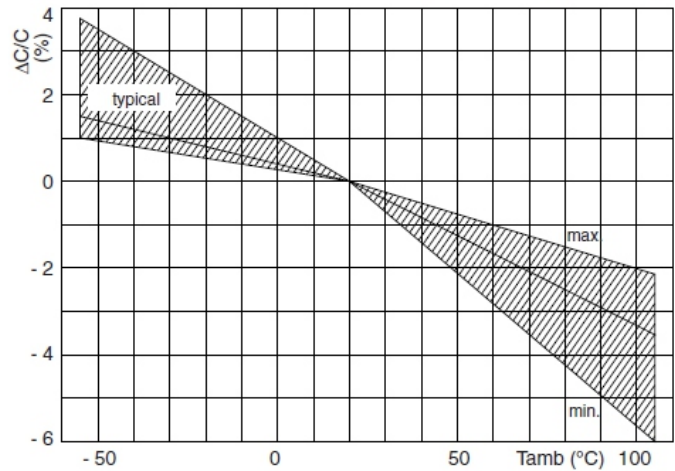
mm	3.5	4	4.5	20
Code	35	40	45	200

CHARACTERISTIC CURVE

Max. RMS Voltage vs Frequency (Typical Curve)



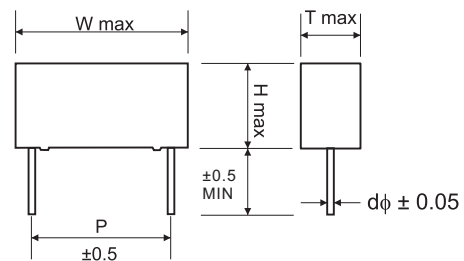
Capacitance vs Temperature (Typical Curve)



DIMENSION

Rating	Maximum Dimension (mm)					
μF	Code	W	H	T	P	d
0.047	473	18	12	6	15	0.8
0.068	683	18	13	7	15	0.8
0.1	104	18	13.5	7.5	15	0.8
0.15	154	18	13.5	7.5	15	0.8
		26	14.5	6	22.5	0.8
0.22	224	18	15	9	15	0.8
		26	15	7.5	22.5	0.8
0.33	334	18	18	10	15	0.8
		26	17	8	22.5	0.8
0.47	474	18	19	12.5	15	0.8
		26	19	10	22.5	0.8
		31	18	9	27.5	0.8
0.56	564	26	20	10	22.5	0.8
		31	20	10	27.5	0.8
0.68	684	26	20	11.5	22.5	0.8
		31	20	10	27.5	0.8
0.82	824	26	20	11.5	22.5	0.8
		31	21	11	27.5	0.8

Rating	Maximum Dimension (mm)					
μF	Code	W	H	T	P	d
1.0	105	26.5	20	11	22.5	0.8
		31.5	23	13.5	27.5	0.8
1.5	155	26.5	20	11	22.5	0.8
		31.5	23	13.5	27.5	0.8
2.2	225	31	28	18	27.5	0.8
3.3	335	41.5	30	18	37.5	1.0
3.9	395	41.5	32	20	37.5	1.0
4.7	475	41.5	35	21	37.5	1.0
5.6	565	41.5	36	24	37.5	1.0
6.8	685	41.5	39	26	37.5	1.0
8.2	825	41.5	41	29	37.5	1.0
10	106	41.5	45	32	37.5	1.0



NOTE: See MKP type for standard X2 application
See MKP-P type for reduced size X2 application