

HP2(MPX/MKP-X2-THB) Film Capacitors



Metallized Polypropylene Film Interference Suppression Capacitors
(Class X2, THB moisture-proof series)

Structure

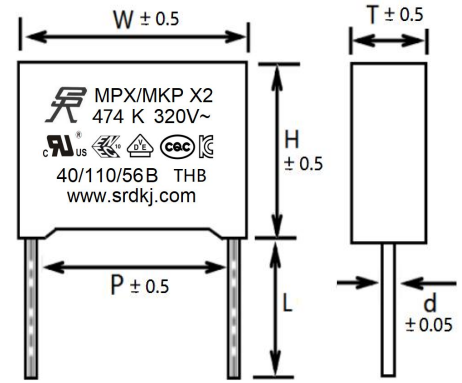
- Dielectric: Metallized Polypropylene film.
- Electrode: Special process metal vacuum evaporation layer.
- Encapsulate: Plastic case (UL94 V-0), Flame retardant epoxy resin sealing.

Typical Application

- Used for interference suppression occasions.
E.g.: Power Supply across lines circuit

Characteristics

- Excellent long-term capacity stability in harsh environments (such as high temperature and high humidity).



- Conform to RoHS standards

Safety Certificate

Safety Certificate	Certified Country	Certificate No.	Reference Standard
	USA, Canada	E528513	UL60384-14 CSA E60384-1:14
	Germany, EU	40052140	EN60384-14 VDE 0565-1-1/A1
	China	CQC22001351109	GB/T6346.14-2015
	South Korea	SU03083 - 16001A~16005A SU03083 - 22001	KC60384-14

Technical Parameter

Climatic Category	40/110/56B	
Operating Temperature Range	-40°C~110°C	
Rated Voltage	275/280/300/320Vac (50/60Hz)	
Capacitance Range	0.1μF ~ 10.0μF	
Capacitance Tolerance	J (±5%)、K (±10%)、M (±20%)	
Voltage Proof	引线之间 Between Terminals	4.3U _R (Vdc), 1min
	极壳之间 Between Terminals To Case	2140Vac, 1min
Dissipation Factor	≤0.0010 (1kHz)	20°C, 1V
Insulation Resistance	CR≤0.33μF, R ≥15000MΩ CR>0.33μF, RC ≥5000S	20°C, 100V, 1min
THB test (Damp Heat Test with Loading)	Temperature:85°C ±2°C; Humidity:85%RH ±2%RH Rated Voltage: 275/280/300/320VAC (50/60Hz) ; Duration:1000hrs (CR ≥ 0.47μF); 168hrs (CR < 0.47μF) Capacitance change(ΔC/C) : ≤10% Dissipation factor change(Δtag δ):≤0.5%(1Khz) Insulation resistance:≥50% of the Rated Value	

Note: Products capacitance can be customized. Details specific parameters are according to Approval Sheet.

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Part Number System

The 15 digits part number is formed as follow:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

H P 2 4 7 4 K 3 2 E 4 R 8 0 0

Digit 1 to 3	Series Code: HP2=X2 (THB)
Digit 4 to 6	Rated Capacitance Value: 474=47x10 ⁴ pF=0.47μF
Digit 7	Capacitance Tolerance: J=±5%; K=±10%; M= ±20%
Digit 8 to 9	A.C. Rated Voltage: 27=275Vac; 28=280Vac; 30=300Vac; 32=320Vac
Digit 10 to 11	Dimensions Code: See The Dimension Comparison Table
Digit 12	Color Code: R - Gray; X - Yellow
Digit 13	Lead-wire Diameter Code: 6=0.6; 8=0.8; 1=1.0
Digit 14 to 15	Internal Recognition Code

Dimensions (mm) (Rated Voltage: 275/280/300/320Vac)

μF	Part Number	W	T	H	P	d	μF	Part Number	W	T	H	P	d
0.1	HP2104K**CGR600	12.5	6.2	15.5	10	0.6	0.33	HP2334K**E2R800	26.5	7	16.5	22.5	0.8
0.1	HP2104K**C3R600	13	6	12	10	0.6	0.33	HP2334K**E3R800	26.5	8.5	17	22.5	0.8
0.1	HP2104K**D2R800	18	6	12	15	0.8	0.39	HP2394K**DNR800	17.5	9.2	19.5	15	0.8
0.12	HP2124K**CGR600	12.5	6.2	15.5	10	0.6	0.39	HP2394K**DKR800	17.5	8.2	18.5	15	0.8
0.12	HP2124K**D2R800	18	6	12	15	0.8	0.39	HP2394K**E3R800	26.5	8.5	17	22.5	0.8
0.15	HP2154K**CGR600	12.5	6.2	15.5	10	0.6	0.47	HP2474K**D8R800	18	11.2	19.2	15	0.8
0.15	HP2154K**DDR800	17.5	6.2	15.5	15	0.8	0.47	HP2474K**D6R800	18	10	16	15	0.8
0.18	HP2184K**CKR600	12.5	7.2	17.5	10	0.6	0.47	HP2474K**DKR800	17.5	8.2	18.5	15	0.8
0.18	HP2184K**DDR800	17.5	6.2	15.5	15	0.8	0.47	HP2474K**E3R800	26.5	8.5	17	22.5	0.8
0.22	HP2224K**CKR600	12.5	7.2	17.5	10	0.6	0.47	HP2474K**E4R800	26.5	10	19	22.5	0.8
0.22	HP2224K**D4R800	18	8.4	14.5	15	0.8	0.56	HP2564K**DRR800	17.5	10.2	22.5	15	0.8
0.22	HP2224K**DGR800	17.5	7.2	17.5	15	0.8	0.56	HP2564K**DNR800	17.5	9.2	19.5	15	0.8
0.22	HP2224K**DDR800	17.5	6.2	15.5	15	0.8	0.56	HP2564K**E3R800	26.5	8.5	17	22.5	0.8
0.27	HP2274K**CNR600	12.5	8.2	18.5	10	0.6	0.56	HP2564K**E4R800	26.5	10	19	22.5	0.8
0.27	HP2274K**DGR800	17.5	7.2	17.5	15	0.8	0.68	HP2684K**DUR800	17.5	11.2	23.5	15	0.8
0.33	HP2334K**CRR600	12.5	9.2	19.5	10	0.6	0.68	HP2684K**DRR800	17.5	10.2	22.5	15	0.8
0.33	HP2334K**DKR800	17.5	8.2	18.5	15	0.8	0.68	HP2684K**D8R800	18	11.2	19.2	15	0.8
0.33	HP2334K**DGR800	17.5	7.2	17.5	15	0.8	0.68	HP2684K**E4R800	26.5	10	19	22.5	0.8
0.33	HP2334K**D4R800	18	8.4	14.5	15	0.8	0.68	HP2684K**E3R800	26.5	8.5	17	22.5	0.8

Note: “**” represents the Rated Voltage, replace it with the corresponding Rated Voltage code.

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Film Capacitors



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■ Dimensions (mm) (Rated Voltage: 275/280/300/320Vac)

μF	Part Number	W	T	H	P	d	μF	Part Number	W	T	H	P	d
0.82	HP2824K**DUR800	17.5	11.2	23.5	15	0.8	3.3	HP2335K**F9R800	31.5	18	28	27.5	0.8
0.82	HP2824K**E4R800	26.5	10	19	22.5	0.8	3.3	HP2335K**F5R800	31.5	16	30	27.5	0.8
0.82	HP2824K**E5R800	26.5	11	20	22.5	0.8	3.3	HP2335K**S3R100	41.5	16	30	37.5	1.0
1.0	HP2105K**DXR800	17.5	12.2	24.5	15	0.8	3.3	HP2335K**S2R100	41.5	14	28	37.5	1.0
1.0	HP2105K**E4R800	26.5	10	19	22.5	0.8	3.5	HP2355K**F6R800	31.5	18	33	27.5	0.8
1.0	HP2105K**E5R800	26.5	11	20	22.5	0.8	3.5	HP2355K**F9R800	31.5	18	28	27.5	0.8
1.0	HP2105K**E6R800	26	12	21.5	22.5	0.8	3.5	HP2355K**S3R100	41.5	16	30	37.5	1.0
1.0	HP2105K**F1R800	31.5	10.8	19.5	27.5	0.8	3.5	HP2355K**S2R100	41.5	14	28	37.5	1.0
1.2	HP2125K**E6R800	26	12	21.5	22.5	0.8	3.9	HP2395K**F6R800	31.5	18	33	27.5	0.8
1.2	HP2125K**F2R800	31.5	13	21.5	27.5	0.8	3.9	HP2395K**S4R100	41.5	17	32	37.5	1.0
1.2	HP2125K**F1R800	31.5	10.8	19.5	27.5	0.8	3.9	HP2395K**S3R100	41.5	16	30	37.5	1.0
1.5	HP2155K**E7R800	26.5	13	23	22.5	0.8	4.0	HP2405K**F6R800	31.5	18	33	27.5	0.8
1.5	HP2155K**F3R800	31	14	25	27.5	0.8	4.0	HP2405K**S4R100	41.5	17	32	37.5	1.0
1.5	HP2155K**F2R800	31.5	13	21.5	27.5	0.8	4.0	HP2405K**S3R100	41.5	16	30	37.5	1.0
1.5	HP2155K**SOR100	41.5	11	22	37.5	1.0	4.5	HP2455K**F6R800	31.5	18	33	27.5	0.8
1.8	HP2185K**F2R800	31.5	13	21.5	27.5	0.8	4.5	HP2455K**S5R100	41.5	18.5	33.5	37.5	1.0
1.8	HP2185K**F3R800	31	14	25	27.5	0.8	4.5	HP2455K**S3R100	41.5	16	30	37.5	1.0
1.8	HP2185K**S1R100	41.5	12	26	37.5	1.0	4.7	HP2475K**F6R800	31.5	18	33	27.5	0.8
1.8	HP2185K**SOR100	41.5	11	22	37.5	1.0	4.7	HP2475K**S5R100	41.5	18.5	33.5	37.5	1.0
2.0	HP2205K**F3R800	31	14	25	27.5	0.8	4.7	HP2475K**S3R100	41.5	16	30	37.5	1.0
2.0	HP2205K**F4R800	31.5	16	25.5	27.5	0.8	5.0	HP2505K**F6R800	31.5	18	33	27.5	0.8
2.0	HP2205K**S1R100	41.5	12	26	37.5	1.0	5.0	HP2505K**S5R100	41.5	18.5	33.5	37.5	1.0
2.0	HP2205K**SOR100	41.5	11	22	37.5	1.0	5.0	HP2505K**S3R100	41.5	16	30	37.5	1.0
2.2	HP2225K**F5R800	31.5	16	30	27.5	0.8	5.6	HP2565K**S6R100	41.5	22	37	37.5	1.0
2.2	HP2225K**F3R800	31	14	25	27.5	0.8	5.6	HP2565K**S5R100	41.5	18.5	33.5	37.5	1.0
2.2	HP2225K**S2R100	41.5	14	28	37.5	1.0	6.0	HP2605K**S6R100	41.5	22	37	37.5	1.0
2.2	HP2225K**S1R100	41.5	12	26	37.5	1.0	6.0	HP2605K**S5R100	41.5	18.5	33.5	37.5	1.0
2.5	HP2255K**F5R800	31.5	16	30	27.5	0.8	6.8	HP2685K**S6R100	41.5	22	37	37.5	1.0
2.5	HP2255K**F4R800	31.5	16	25.5	27.5	0.8	6.8	HP2685K**S5R100	41.5	18.5	33.5	37.5	1.0
2.5	HP2255K**S2R100	41.5	14	28	37.5	1.0	7.0	HP2705K**S7R100	41.5	26	41	37.5	1.0
2.5	HP2255K**S1R100	41.5	12	26	37.5	1.0	7.0	HP2705K**S6R100	41.5	22	37	37.5	1.0
2.7	HP2275K**F9R800	31.5	18	28	27.5	0.8	7.5	HP2755K**S7R100	41.5	26	41	37.5	1.0
2.7	HP2275K**F4R800	31.5	16	25.5	27.5	0.8	7.5	HP2755K**S6R100	41.5	22	37	37.5	1.0
2.7	HP2275K**S2R100	41.5	14	28	37.5	1.0	8.0	HP2805K**S7R100	41.5	26	41	37.5	1.0
2.7	HP2275K**S1R100	41.5	12	26	37.5	1.0	8.0	HP2805K**S6R100	41.5	22	37	37.5	1.0
3.0	HP2305K**F6R800	31.5	18	33	27.5	0.8	8.2	HP2825K**S7R100	41.5	26	41	37.5	1.0
3.0	HP2305K**F4R800	31.5	16	25.5	27.5	0.8	8.2	HP2825K**S6R100	41.5	22	37	37.5	1.0
3.0	HP2305K**S3R100	41.5	16	30	37.5	1.0	9.0	HP2905K**S7R100	41.5	26	41	37.5	1.0
3.0	HP2305K**S2R100	41.5	14	28	37.5	1.0	9.0	HP2905K**S6R100	41.5	22	37	37.5	1.0
3.3	HP2335K**F6R800	31.5	18	33	27.5	0.8	10.0	HP2106K**S8R100	41.5	28	43	37.5	1.0

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