

HCX1




Metallized polypropylene film interference suppression capacitor(Class X1, 330Va.c.)



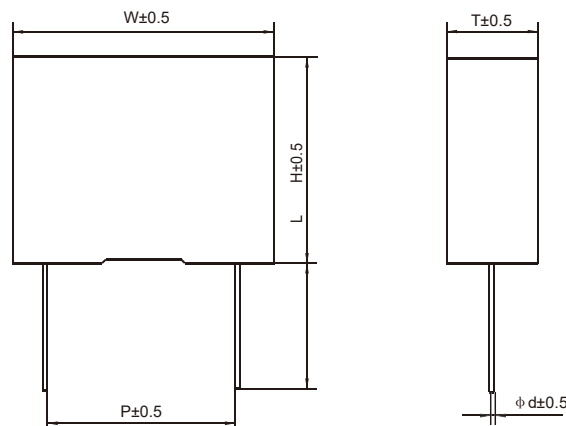
Features

- Used in across-the line, interference suppression circuit
- Metallized polypropylene structure, encapsulated in flame-resistant plastic case, sealed with epoxy resin
- Withstand overvoltage impact, excellent self-healing property
- Excellent flame resistant and moisture resistance abilities
- High voltage resistance and insulation resistance

Safety Approvals

	ongoing
	ongoing
	ongoing

Outline Drawing



Specifications

Reference standard	GB/T6346.14 (IEC60384-14)		
Climatic category	40/110/56B		
Operating temperature range	-40°C~+110°C		
Rated voltage	330Va.c.		
Capacitance range	0.01μF~6.8μF		
Capacitance tolerance	±10% (K) 、 ±20% (M) (20°C, 1kHz)		
Voltage proof	Between terminals	4.3U _R (5s)	
	Between terminals & case	2160Va.c. (1min)	
Insulation resistance	R≥15000MΩ C _N ≤0.33μF RC _N ≥5000s C _N >0.33μF	(20°C, 100Vd.c.,1min)	
Dissipation factor	0.01 μ F < C _N ≤ 0.47 μ F	≤0.0015 (1kHz,20°C)	≤0.0030 (10kHz,20°C)
	0.47 μ F < C _N ≤ 1.0 μ F	≤0.0020 (1kHz,20°C)	≤0.0040 (10kHz,20°C)
	1.0 μ F < C _N ≤ 6.8 μ F	≤0.0030 (1kHz,20°C)	/

Ordering Information

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
H	C	X	1	/	R	1	2	2	4	K	9	0	*	*	*	*	(X	X	X)
Series code					AC rated voltage		Rated capacitance value			Capacitance tolerance	Pitch	Internal code	lead form and packaging code				Internal code				
					R1=330V AC		Forexample : 224=22×10 ⁴ p F=0.22μF			K=±10% M=±20%	4=10mm 6=15mm 9=22.5mm B=27.5mm F=37.5mm	0 (normal type)	See table 1				To identify when the special requirements needed				

Table 1 Terminal code

Digit18		Digit19		Digit20		Digit21	
Code	explanation	Code	explanation	Code	explanation	Code	explanation
A	Ammo-pack	4	F=10.0	0	Straightlead	5	Between two consecutive mounting holes P=25.4mm,H0=18mm(Pitch=10.0/15.0)
		6	F=15.0				
C	straight lead“C” in the figure above(bulk package)	00	standard lead length(18±1mm)		0	ength tolerance ±0.5mm standard lead length	
		35	lead length=3.5mm (1)				

Notes: (1) If the length of lead is 4.5mm, then the code number is C450,etc.

Outline Dimensions

330Va.c.							330Va.c.						
C _N (μF)	W mm	H mm	T mm	P mm	d mm	Ordering Information	CN (μF)	W mm	H mm	T mm	P mm	d mm	Ordering Information
0.01	13.0	9.0	4.0	10.0	0.6	HCX1/R1103-40****	0.018	18.0	9.5	5.0	15.0	0.6	HCX1/R1183-60****
0.012	13.0	9.0	4.0	10.0	0.6	HCX1/R1123-40****	0.022	18.0	9.5	5.0	15.0	0.6	HCX1/R1223-60****
0.015	13.0	11.0	5.0	10.0	0.6	HCX1/R1153-40****	0.022	18.0	11.0	5.0	15.0	0.6	HCX1/R1223-60****
0.018	13.0	11.0	5.0	10.0	0.6	HCX1/R1183-40****	0.027	18.0	9.5	5.0	15.0	0.6	HCX1/R1273-60****
0.022	13.0	11.0	5.0	10.0	0.6	HCX1/R1223-40****	0.033	18.0	11.0	5.0	15.0	0.6	HCX1/R1333-60****
0.027	13.0	11.0	5.0	10.0	0.6	HCX1/R1273M40****	0.039	18.0	9.5	5.0	15.0	0.6	HCX1/R1393M60****
0.033	13.0	12.0	6.0	10.0	0.6	HCX1/R1333-40****	0.047	18.0	11.0	5.0	15.0	0.6	HCX1/R1473-60****
0.039	13.0	12.0	6.0	10.0	0.6	HCX1/R1393-40****	0.056	18.0	12.0	6.0	15.0	0.8	HCX1/R1563-60****
0.047	13.0	13.0	7.0	10.0	0.6	HCX1/R1473-40****	0.068	18.0	12.0	6.0	15.0	0.8	HCX1/R1683-60****
0.056	13.0	13.0	7.0	10.0	0.6	HCX1/R1563M40****	0.082	18.0	12.0	6.0	15.0	0.8	HCX1/R1823M60****
0.01	18.0	9.5	5.0	15.0	0.6	HCX1/R1103-60****	0.10	18.0	13.0	7.0	15.0	0.8	HCX1/R1104-60****
0.012	18.0	9.5	5.0	15.0	0.6	HCX1/R1123-60****	0.12	18.0	13.5	7.5	15.0	0.8	HCX1/R1124M60****
0.015	18.0	9.5	5.0	15.0	0.6	HCX1/R1153-60****	0.15	18.0	14.5	8.5	15.0	0.8	HCX1/R1154-60****

Notes: (1) “-” means capacitance tolerance code, K=±10%, M=±20%;

(2) “****”=terminal code and packing code(see table 1)

Outline Dimensions

330Va.c.							330Va.c.						
C _N (μF)	W mm	H mm	T mm	P mm	d mm	Ordering Information	CN (μF)	W mm	H mm	T mm	P mm	d mm	Ordering Information
0.18	18.0	18.0	10.0	15.0	0.8	HCX1/R1184-60****	0.27	32.0	18.0	9.0	27.5	0.8	HCX1/R1274-B0****
0.22	18.0	18.0	10.0	15.0	0.8	HCX1/R1224-60****	0.33	32.0	18.0	9.0	27.5	0.8	HCX1/R1334-B0****
0.33	18.0	19.0	11.0	15.0	0.8	HCX1/R1334-60****	0.39	32.0	18.0	9.0	27.5	0.8	HCX1/R1394-B0****
0.039	26.5	15.0	6.0	22.5	0.8	HCX1/R1393-90****	0.47	32.0	20.0	11.0	27.5	0.8	HCX1/R1474-B0****
0.047	26.5	15.0	6.0	22.5	0.8	HCX1/R1473-90****	0.56	32.0	20.0	11.0	27.5	0.8	HCX1/R1564-B0****
0.056	26.5	15.0	6.0	22.5	0.8	HCX1/R1563-90****	0.68	32.0	20.0	11.0	27.5	0.8	HCX1/R1684-B0****
0.068	26.5	15.0	6.0	22.5	0.8	HCX1/R1683-90****	0.82	32.0	22.0	13.0	27.5	0.8	HCX1/R1824-B0****
0.082	26.5	15.0	6.0	22.5	0.8	HCX1/R1823-90****	1.0	32.0	22.0	13.0	27.5	0.8	HCX1/R1105MB0****
0.10	26.5	15.0	6.0	22.5	0.8	HCX1/R1104-90****	1.0	32.0	25	13	27.5	0.8	HCX1/R1105KB0****
0.12	26.5	15.0	6.0	22.5	0.8	HCX1/R1124-90****	1.2	32.0	28.0	14.0	27.5	0.8	HCX1/R1125-B0****
0.15	26.5	15.0	6.0	22.5	0.8	HCX1/R1154-90****	1.5	32.0	30.0	16.0	27.5	0.8	HCX1/R1155-B0****
0.18	26.5	15.0	6.0	22.5	0.8	HCX1/R1184M90****	1.8	32.0	30.0	16.0	27.5	0.8	HCX1/R1185-B0****
0.22	26.5	16.5	7.0	22.5	0.8	HCX1/R1224-90****	2.0	32.0	29.0	19.0	27.5	0.8	HCX1/R1205-B0****
0.27	26.5	16.5	7.0	22.5	0.8	HCX1/R1274-90****	2.2	32.0	33.0	18.0	27.5	0.8	HCX1/R1225-B0****
0.33	26.5	17.0	8.5	22.5	0.8	HCX1/R1334-90****	2.7	32.0	37.0	22.0	27.5	0.8	HCX1/R1275-B0****
0.39	26.5	19.0	10.0	22.5	0.8	HCX1/R1394-90****	3.3	32.0	37.0	22.0	27.5	0.8	HCX1/R1335-B0****
0.47	26.5	19.0	10.0	22.5	0.8	HCX1/R1474-90****	0.33	42.0	22.0	11.0	37.5	1.0	HCX1/R1334-F0****
0.56	26.5	20.0	11.0	22.5	0.8	HCX1/R1564-90****	0.39	42.0	22.0	11.0	37.5	1.0	HCX1/R1394-F0****
0.68	26.5	22.0	12.0	22.5	0.8	HCX1/R1684-90****	0.47	42.0	22.0	11.0	37.5	1.0	HCX1/R1474-F0****
0.82	26.5	22.0	12.0	22.5	0.8	HCX1/R1824M90****	0.56	42.0	22.0	11.0	37.5	1.0	HCX1/R1564-F0****
0.82	26.5	23.0	13.5	22.5	0.8	HCX1/R1824K90****	0.68	42.0	22.0	11.0	37.5	1.0	HCX1/R1684-F0****
1.0	26.5	24.5	15.5	22.5	0.8	HCX1/R1105-90****	0.82	42.0	22.0	11.0	37.5	1.0	HCX1/R1824-F0****
1.2	26.5	24.5	15.5	22.5	0.8	HCX1/R1125M90****	1.0	42.0	22.0	11.0	37.5	1.0	HCX1/R1105-F0****
1.2	26.5	29.5	14.5	22.5	0.8	HCX1/R1125K90****	1.2	42.0	22.0	11.0	37.5	1.0	HCX1/R1125MF0****
0.15	32.0	18.0	9.0	27.5	0.8	HCX1/R1154-B0****	1.2	42.0	24.0	13.0	37.5	1.0	HCX1/R1125KF0****
0.18	32.0	18.0	9.0	27.5	0.8	HCX1/R1184-B0****	1.5	42.0	24.0	13.0	37.5	1.0	HCX1/R1155-F0****
0.22	32.0	18.0	9.0	27.5	0.8	HCX1/R1224-B0****	1.8	42.0	28.0	14.0	37.5	1.0	HCX1/R1185-F0****

Notes: (1) "-" means capacitance tolerance code, K=±10%, M=±20%;

(2) "****"=terminal code and packing code(see table 1)

Outline Dimensions

330Va.c.							330Va.c.						
C _N (μF)	W mm	H mm	T mm	P mm	d mm	Ordering Information	CN (μF)	W mm	H mm	T mm	P mm	d mm	Ordering Information
2.0	42.0	28.0	14.0	37.5	1.0	HCX1/R1205-F0****	3.9	42.0	40.0	20.0	37.5	1.0	HCX1/R1395-F0****
2.2	42.0	28.0	14.0	37.5	1.0	HCX1/R1225-F0****	4.7	42.0	40.0	20.0	37.5	1.0	HCX1/R1475-F0****
2.7	42.0	32.0	17.0	37.5	1.0	HCX1/R1275-F0****	5.6	42.0	41.0	26.0	37.5	1.0	HCX1/R1565-F0****
3.0	42.0	32.0	17.0	37.5	1.0	HCX1/R1305-F0****	6.8	42.0	43.0	28.0	37.5	1.0	HCX1/R1685-F0****
3.3	42.0	33.0	18.0	37.5	1.0	HCX1/R1335-F0****							

Notes: (1) "-" means capacitance tolerance code, K=±10%, M=±20%;

(2) "****"=terminal code and packing code(see table 1)

HCX1


Metallized polypropylene film interference suppression capacitor(Class X1, 440/480/530Va.c.)



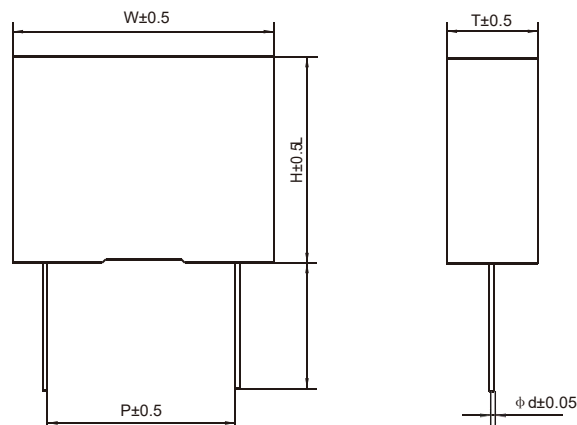
Features

- Used in across-the line, interference suppression circuit
- Metallized polypropylene structure, encapsulated in flame-resistant plastic case, sealed with epoxy resin
- Withstand overvoltage impact, excellent self-healing property
- Excellent flame resistant and moisture resistance abilities
- High voltage resistance and insulation resistance

Safety Approvals

	ongoing
	ongoing
	ongoing

Outline Drawing



Specifications

Reference standard	GB/T6346.14 (IEC60384-14)		
Climatic category	40/110/56B		
Operating temperature range	-40°C~+110°C		
Rated voltage	440/480/530Va.c.		
Capacitance range	0.001μF~5.6μF		
Capacitance tolerance	±10% (K) 、 ±20% (M) (20°C, 1kHz)		
Voltage proof	Between terminals	4.3U _R (5s)	
	Between terminals & case	2160Va.c. (1min)	
Insulation resistance	R≥15000MΩ C _N ≤0.33μF RC _N ≥5000s C _N >0.33μF	(20°C, 100Vd.c.,1min)	
Dissipation factor	0.01 μ F < C _N ≤ 0.47 μ F	≤0.0015 (1kHz,20°C)	≤0.0030 (10kHz,20°C)
	0.47 μ F < C _N ≤ 1.0 μ F	≤0.0020 (1kHz,20°C)	≤0.0040 (10kHz,20°C)
	1.0 μ F < C _N ≤ 6.8 μ F	≤0.0030 (1kHz,20°C)	/

Ordering Information

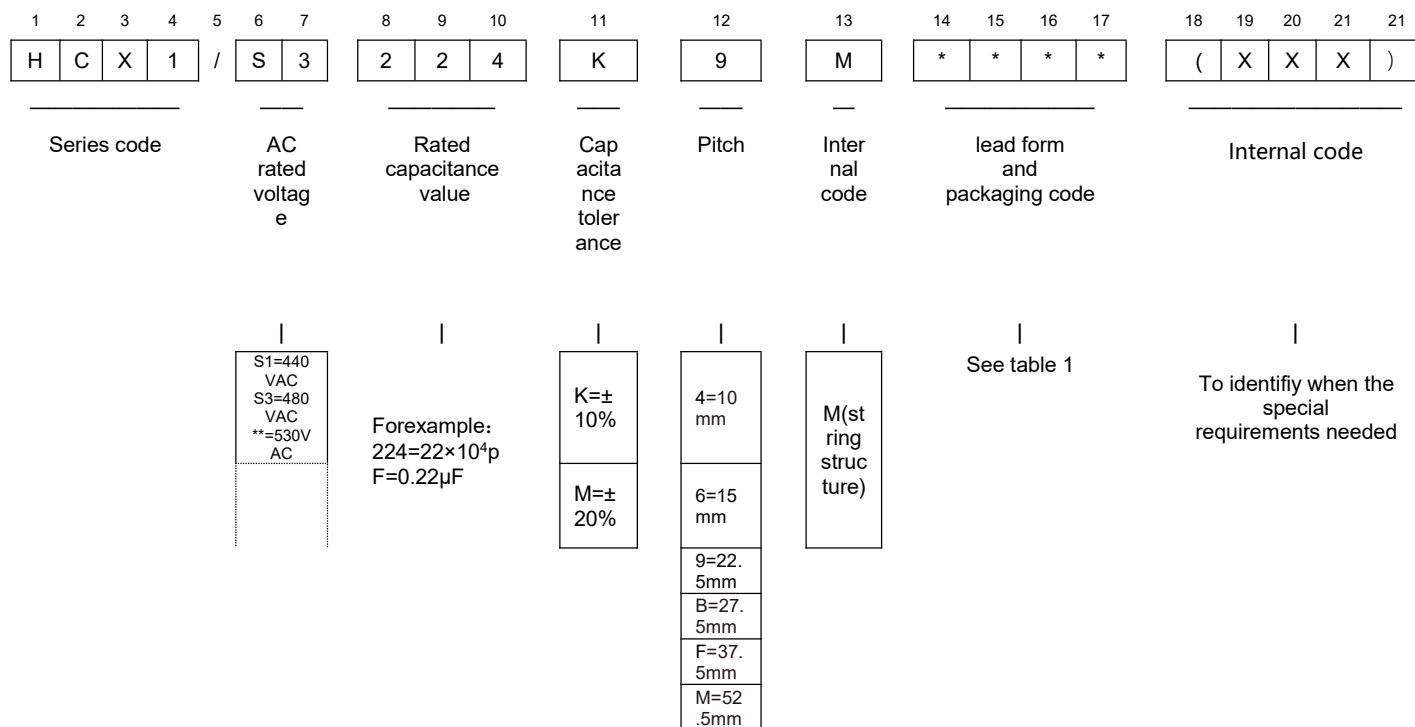


Table 1 Terminal code

Digit18		Digit19		Digit20		Digit21	
Code	explanation	Code	explanation	Code	explanation	Code	explanation
A	Ammo-pack	4	F=10.0	0	Straightlead	5	Between two consecutive mounting holes P=25.4mm,H0=18mm(Pitch=10.0/15.0)
		6	F=15.0				
C	straight lead "C" in the figure above(bulk package)	00	standard lead length(18±1mm)		0	length tolerance ±0.5mm standard lead length	
		35	lead length=3.5mm (1)				

Notes: (1) If the length of lead is 4.5mm, then the code number is C450,etc.

Outline Dimensions

440/480/530Va.c.							440/480/530Va.c.						
C _N (μF)	W mm	H mm	T mm	P mm	d mm	Ordering Information	CN (μF)	W mm	H mm	T mm	P mm	d mm	Ordering Information
0.001	13	9	4	10	0.6	HCX1/S3102-4M****	0.1	18	19	11	15	0.8	HCX1/S3104-6M****
0.0022	13	9	4	10	0.6	HCX1/S3222-4M****	0.033	26.5	15	6	22.5	0.8	HCX1/S3333-9M****
0.0033	13	9	4	10	0.6	HCX1/S3332-4M****	0.047	26.5	15	6	22.5	0.8	HCX1/S3473-9M****
0.0068	13	11	5	10	0.6	HCX1/S3682-4M****	0.056	26.5	15	6	22.5	0.8	HCX1/S3563-9M****
0.0082	13	11	5	10	0.6	HCX1/S3822-4M****	0.068	26.5	15	6	22.5	0.8	HCX1/S3683-9M****
0.01	13	12	6	10	0.6	HCX1/S3103-4M****	0.082	26.5	15	6	22.5	0.8	HCX1/S3823-9M****
0.0068	18	11	5	15	0.6	HCX1/S3682-6M****	0.1	26.5	16.5	7	22.5	0.8	HCX1/S3104-9M****
0.0082	18	11	5	15	0.6	HCX1/S3822-6M****	0.15	26.5	17	8.5	22.5	0.8	HCX1/S3154-9M****
0.01	18	11	5	15	0.6	HCX1/S3103-6M****	0.22	26.5	19	10	22.5	0.8	HCX1/S3224-9M****
0.022	18	12	6	15	0.8	HCX1/S3223-6M****	0.33	26.5	22	12	22.5	0.8	HCX1/S3334-9M****
0.033	18	13	7	15	0.8	HCX1/S3333-6M****	0.47	26.5	24.5	15.5	22.5	0.8	HCX1/S3474-9M****
0.047	18	13.5	7.5	15	0.8	HCX1/S3473-6M****	0.56	26.5	29.5	14.5	22.5	0.8	HCX1/S3564-9M****
0.056	18	14.5	8.5	15	0.8	HCX1/S3563-6M****	0.15	32	18	9	27.5	0.8	HCX1/S3154-BM****
0.068	18	16	10	15	0.8	HCX1/S3683-6M****	0.22	32	18	9	27.5	0.8	HCX1/S3224-BM****
0.082	18	16	10	15	0.8	HCX1/S3823-6M****	0.33	32	20	11	27.5	0.8	HCX1/S3334-BM****

Notes: (1) "-" means capacitance tolerance code, K=±10%, M=±20%;

(2) "****"=terminal code and packing code(see table 1)

Outline Dimensions

440/480/530Va.c.							440/480/530Va.c.						
C _N (μF)	W mm	H mm	T mm	P mm	d mm	Ordering Information	CN (μF)	W mm	H mm	T mm	P mm	d mm	Ordering Information
0.47	32	22	13	27.5	0.8	HCX1/S3474-BM****	0.82	42	24	13	37.5	1.0	HCX1/S3824-FM****
0.56	32	25	13	27.5	0.8	HCX1/S3564-BM****	1	42	26	15	37.5	1.0	HCX1/S3105-FM****
0.68	32	24.5	15	27.5	0.8	HCX1/S3684-BM****	1	42	30	16	37.5	1.0	HCX1/S3105-FM****
0.82	32	28	17	27.5	0.8	HCX1/S3824-BM****	1.5	42	30	16	37.5	1.0	HCX1/S3155MFM****
0.82	32	30	16	27.5	0.8	HCX1/S3824-BM****	1.5	42	32	17	37.5	1.0	HCX1/S3155-FM****
1	32	30	16	27.5	0.8	HCX1/S3105MBM****	1.8	42	32	17	37.5	1.0	HCX1/S3185MFM****
1	32	29	19	27.5	0.8	HCX1/S3105-BM****	1.8	42	33	18	37.5	1.0	HCX1/S3185-FM****
1.5	32	34	20	27.5	0.8	HCX1/S3155MBM****	2.2	42	40	20	37.5	1.0	HCX1/S3225-FM****
1.5	32	37	22	27.5	0.8	HCX1/S3155-BM****	3.3	42	37	28	37.5	1.0	HCX1/S3335-FM****
1.8	32	37	22	27.5	0.8	HCX1/S3185-BM****	3.3	42	41	26	37.5	1.0	HCX1/S3335-FM****
0.22	42	22	11	37.5	1.0	HCX1/S3224-FM****	4.7	42	45	30	37.5	1.0	HCX1/S3475-FM****
0.33	42	22	11	37.5	1.0	HCX1/S3334-FM****	5.6	42	50	35	37.5	1.0	HCX1/S3565-FM****
0.47	42	22	11	37.5	1.0	HCX1/S3474-FM****	4.7	57.5	45	30	52.5	1.2	HCX1/S3475-MM****
0.56	42	22	11	37.5	1.0	HCX1/S3564-FM****	5.6	57.5	45	30	52.5	1.2	HCX1/S3565-MM****
0.68	42	24	13	37.5	1.0	HCX1/S3684-FM****							

Notes: (1) "-" means capacitance tolerance code, K=±10%, M=±20%;

(2) "****"=terminal code and packing code(see table 1)