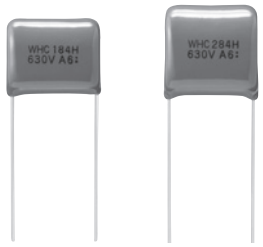
Metallized Polypropylene Film Capacitor

Series : **ECWH(C)**

Non-inductive construction using metallized polypropylene film with flame retardant epoxy resin coating



Features

- Excellent electrical characteristics
- Low loss
- Flame-retardant epoxy resin coating
- RoHS directive compliant

Recommended applications

- General resonance circuit (630 V.DC, 1250 V.DC)
- Resonance circuit for microwave oven and IH cooker (630 V.DC, 1250 V.DC)
- General high voltage circuit (3000 V.DC)

Explanation of part number

- Rated voltage 630 V.DC (Bulk)

1	2	3	4	5	6	7	8	9	10	11
E	C	W	H	6				H	C	
Product code		Dielectric & construction		Rated voltage	Capacitance			Cap. Tol.	Suffix	Suffix

6	630 V.DC

H	±3 %

Code	Lead Form
Blank	Straight
C	Cut lead

- Rated voltage 630 V.DC (Odd size taping)

1	2	3	4	5	6	7	8	9	10	11
E	C	W	H	6				R	H	C
Product code		Dielectric & construction		Rated voltage	Capacitance			Suffix	Cap. Tol.	Suffix

- Rated voltage 1250 V.DC (Cut lead)

1	2	3	4	5	6	7	8	9	10	11	12
E	C	W	H	C	3	B				J	A
Product code		Dielectric & construction			Rated voltage		Capacitance			Cap. Tol.	Suffix

3B	1250 V.DC

J	±5 %

Code	Lead Form
A	Cut lead

- Rated voltage 3000 V.DC (Bulk)

1	2	3	4	5	6	7	8	9	10	11	12
E	C	W	H	C	3	F				J	
Product code		Dielectric & construction			Rated voltage		Capacitance			Cap. Tol.	Suffix

3F	3000 V.DC

J	±5 %

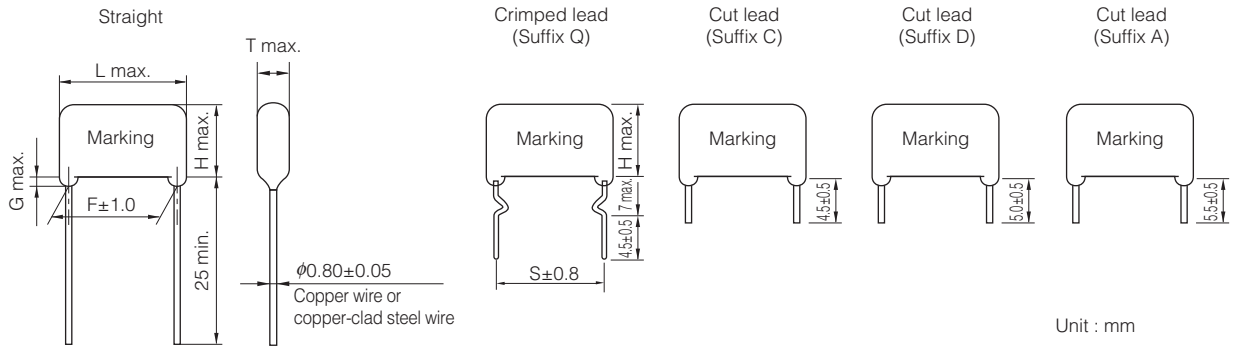
Code	Lead Form
Blank	Straight
D	Cut lead
Q	Crimped lead

Specifications

Category temp. range (Including temperature-rise on unit surface)	630 V.DC	– 40 °C to +105 °C : General resonance circuit
		– 40 °C to +85 °C : When using compulsive air cooling for a resonance circuit
	1250 V.DC	– 40 °C to +105 °C : General resonance circuit
		– 40 °C to +85 °C : When using compulsive air cooling for a resonance circuit
	3000 V.DC	– 40 °C to +85 °C : General high voltage circuit
Rated voltage	630 VDC, 1250 VDC, 3000 VDC	
Capacitance range	630 V.DC	0.10 μF to 0.33 μF
	1250 V.DC	0.08 μF to 0.12 μF
	3000 V.DC	0.0024 μF to 0.01 μF
Capacitance tolerance	630 V.DC	±3 %(H)
	1250 V.DC	±5 %(J)
	3000 V.DC	±5 %(J)
Dissipation factor (tan δ)	630 V.DC	tan δ ≦ 0.05 % (20 °C, 1 kHz)
	1250 V.DC	tan δ ≦ 0.1 % (20 °C, 10 kHz)
	3000 V.DC	tan δ ≦ 0.1 % (20 °C, 1 kHz), tan δ ≦ 0.1 % (20 °C, 10 kHz)
Withstand voltage	630 V.DC	Between terminals : Rated volt. (V.DC)×150 %, 60 s
	1250 V.DC	
	3000 V.DC	Between terminals : 6615 V.DC, 3 s
Insulation resistance (IR)	630 V.DC	IR ≧ 9000 MΩ (20 °C, 500 V.DC, 60 s)
	1250 V.DC	
	3000 V.DC	IR ≧ 50000 MΩ (20 °C, 500 V.DC, 60 s)

✻ In case of applying voltage in alternating current (50 Hz or 60 Hz sine wave) to a capacitor with DC rated voltage, please refer to the page of "Permissible voltage (R.M.S) in alternating current corresponding to DC rated voltage".

Dimensions

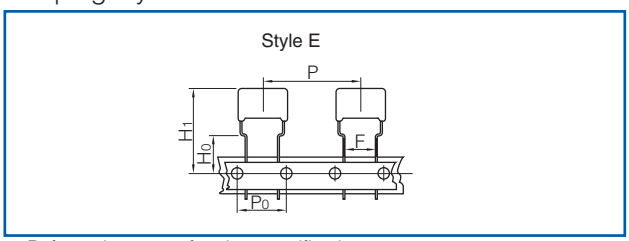


Packaging specifications for bulk package

● Packing quantity : 100 pcs./bag

Taping specifications for automatic insertion

● Taping style



✻ Refer to the page of taping specifications.

● Taping style

Series	Rated voltage (V.DC)	Capacitance range (μF)	Taping style						Packing
			AD	AS	B	C	D	E	
ECWH(C)	630	0.10 to 0.21						○	Ammo

✻ See the column "Rating • Dimensions • Quantity" for packing quantity

● Lead spacing

Style	Lead spacing
E	7.5 mm

Rating · Dimensions · Quantity

● Rated voltage : 630 V.DC, Capacitance tolerance : ±3 %(H)

Part No.	Capacitance (μF)	Dimensions (mm)						Min. order Q'ty	
		L max.	T max.	H max.	F	G max.	φd	Taping	Bulk
								7.5 mm	Straight · Crimped lead
ECWH6104HC( )	0.10	20.7	8.6	13.5	17.5	1.5	0.8	350	1000
ECWH6114HC( )	0.11	20.7	9.0	13.9	17.5	1.5	0.8	300	
ECWH6124HC( )	0.12	20.7	9.4	14.3	17.5	1.5	0.8		
ECWH6184HC( )	0.18	20.7	11.5	16.3	17.5	1.5	0.8	250	
ECWH6214HC( )	0.21	20.7	12.4	17.2	17.5	1.5	0.8	200	
ECWH6244HC( )	0.24	20.7	13.2	18.1	17.5	1.5	0.8	–	700
ECWH6274HC( )	0.27	20.7	14.0	18.9	17.5	1.5	0.8		
ECWH6284HC( )	0.28	20.7	14.3	19.1	17.5	1.5	0.8		
ECWH6304HC( )	0.30	20.7	14.8	19.6	17.5	1.5	0.8		
ECWH6324HC( )	0.32	20.7	14.5	20.9	17.5	1.5	0.8		
ECWH6334HC( )	0.33	20.7	14.7	21.1	17.5	1.5	0.8		

✻ ( ) : Suffix for lead form

● Rated voltage : 1250 V.DC, Capacitance tolerance : ±5 %(J)

Part No.	Capacitance (μF)	Dimensions (mm)						Min. order Q'ty
		L max.	T max.	H max.	F	G max.	φd	Bulk
								Straight · Crimped lead
ECWHC3B803JA	0.08	20.7	12.0	19.0	17.5	1.5	0.8	700
ECWHC3B104JA	0.10	20.7	13.5	20.6	17.5	1.5	0.8	
ECWHC3B114JA	0.11	20.7	14.2	21.3	17.5	1.5	0.8	600
ECWHC3B124JA	0.12	20.7	14.9	21.9	17.5	1.5	0.8	

● Rated voltage : 3000 V.DC, Capacitance tolerance : ±5 %(J)

Part No.	Capacitance (μF)	Dimensions (mm)							Min. order Q'ty
		L max.	T max.	H max.	F	S	G max.	φd	Bulk
						Crimped lead (Suffix Q)			Straight · Crimped lead
ECWHC3F242J( )	0.0024	25.8	6.1	10.9	22.5	23.0	1.5	0.8	1000
ECWHC3F362J( )	0.0036	25.8	7.2	11.9	22.5	23.0	1.5	0.8	
ECWHC3F392J( )	0.0039	25.8	7.5	12.2	22.5	23.0	1.5	0.8	
ECWHC3F432J( )	0.0043	25.8	6.5	11.2	22.5	23.0	1.5	0.8	
ECWHC3F562J( )	0.0056	25.8	7.3	12.0	22.5	23.0	1.5	0.8	
ECWHC3F822J( )	0.0082	25.8	7.5	15.3	22.5	23.0	1.5	0.8	
ECWHC3F103J( )	0.01	25.8	8.2	16.1	22.5	23.0	1.5	0.8	

✻ ( ) : Suffix for lead form

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