

## Metallized Polypropylene Film Capacitors

Type: **ECWH(A)**

Designed for high frequency and pluse applications.

### ■ Features

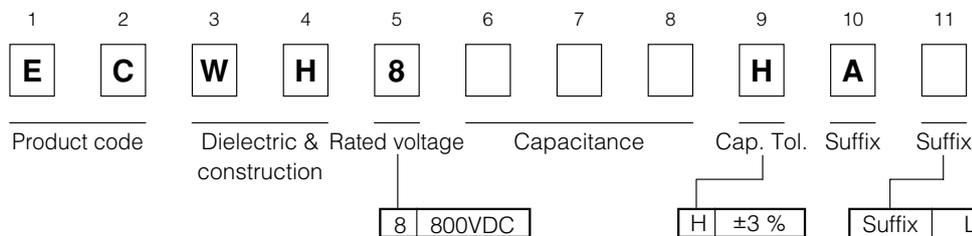
- Small size
- Excellent electrical characteristics
- Low loss
- Low Hum Sound Noise
- Flame-retardant epoxy resin coating
- RoHS directive compliant

### ■ Recommended Applications

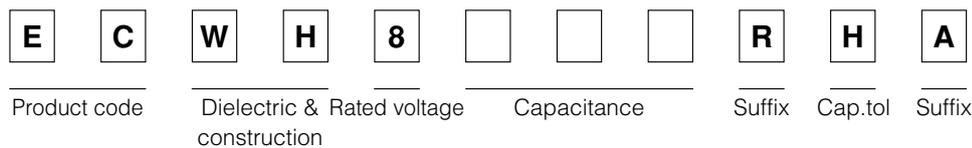
- Resonant circuit, Electronic ballast

### ■ Explanation of Part Numbers

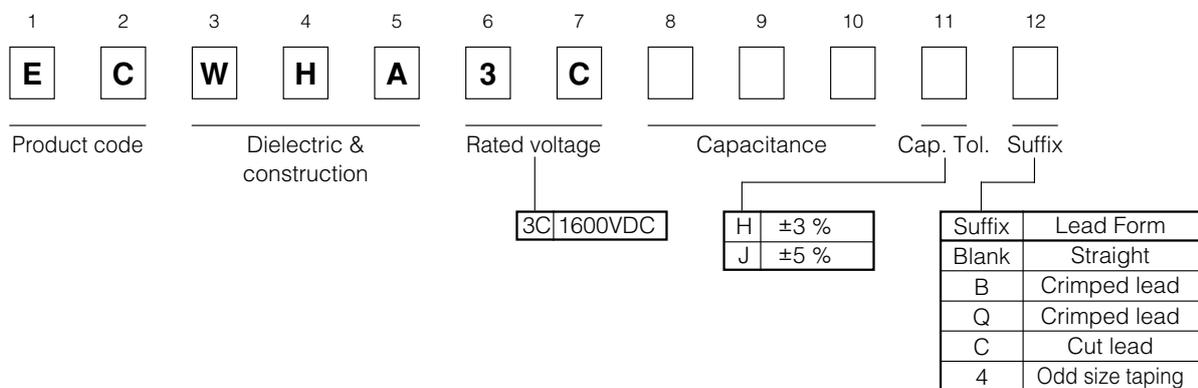
- Explanation of Part Numbers (Rated voltage 800 VDC)



- Explanation of Part Numbers for Odd Size Taping (Rated voltage 800 VDC)



- Explanation of Part Numbers (Rated voltage 1600 VDC)



Metallized Film

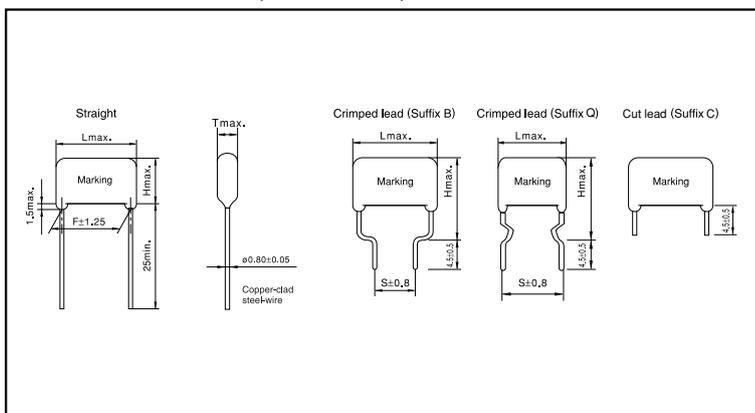


### ■ Specifications

Category temp. range (Including temperature-rise on unit surface)	-40 °C to +105 °C	
Rated voltage	800 VDC	1600 VDC
Capacitance range	0.010 μF to 0.047 μF	0.0010 μF to 0.047 μF
Capacitance tolerance	±3 % (H)	±3 % (H), ±5 % (J)
Dissipation factor (tan δ)	tan δ ≤ 0.1 % (20°C, 1kHz)	
Withstand voltage	Between terminals : Rated volt. (VDC) × 150 % 60 s	
Insulation resistance (IR)	IR ≥ 30000 MΩ (20 °C, 500 VDC, 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 in mm (not to scale)

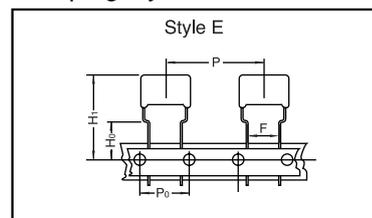


### ■ Packaging Specifications for Bulk Package

Packing quantity : 100 pcs./bag

### ■ Taping Specifications for Automatic Insertion

#### ● Taping style



\* Refer to the page of taping specifications.

### ● Packaging Specifications

Type	Rated volt.	Cap. range (μF)	Taping style					Packing	Suffix
			AD	AS	B	C	E		
ECWH(A)	800 VDC	0.010 to 0.047					○	Ammo	RHA
ECWHA	1600 VDC	0.0010 to 0.047					○	Ammo	( )4

### ● Lead Spacing

Style	Lead Spacing
E	7.5 mm

### ■ Rating & Dimensions & Quantity / Ammo Box

● Rated voltage : 800 VDC, Capacitance tolerance : ±3 % (H)

Part No.	Cap. (μF)	Dimensions (mm)								Min. order Q'ty	
		L <sub>max</sub>	T <sub>max</sub>	H <sub>max</sub>			F	S			ød
				Straight	Crimped lead (Suffix B)	Crimped lead (Suffix Q)		Straight	Crimped lead (Suffix B)		
ECWH8103HA( )	0.010	15.4	5.4	9.8	14.8	14.8	12.5	7.5	12.5	0.6	500
ECWH8123HA( )	0.012	15.4	5.8	10.2	15.2	15.2	12.5	7.5	12.5	0.6	
ECWH8153HA( )	0.015	15.4	6.2	10.6	15.6	15.6	12.5	7.5	12.5	0.6	
ECWH8183HA( )	0.018	15.7	6.6	11.0	16.0	18.0	12.5	7.5	12.5	0.8	
ECWH8223HA( )	0.022	15.7	7.1	11.5	16.5	18.5	12.5	7.5	12.5	0.8	400
ECWH8273HA( )	0.027	15.7	7.6	12.0	17.0	19.0	12.5	7.5	12.5	0.8	
ECWH8333HA( )	0.033	15.7	8.4	12.8	17.8	19.8	12.5	7.5	12.5	0.8	300
ECWH8393HA( )	0.039	15.7	8.9	13.3	18.3	20.3	12.5	7.5	12.5	0.8	
ECWH8473HA( )	0.047	15.7	9.7	14.1	19.1	21.1	12.5	7.5	12.5	0.8	

↑ Suffix for lead crimped taped type  
 ↑ Capacitance tolerance code

Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use. Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.

■ Rating & Dimensions & Quantity / Ammo Box

● Rated voltage : 1600 VDC, Capacitance tolerance : ±3 %(H), ±5 %(J)

Part No.	Cap. (μF)	Dimensions (mm)								Min. order Qty			
		L <sub>max</sub>	T <sub>max</sub>	H <sub>max</sub>			F	S			ød		
				Straight	Crimped lead (Suffix B)	Crimped lead (Suffix Q)		Crimped lead (Suffix B)	Crimped lead (Suffix Q)				
ECWHA3C102( )( )	0.0010	17.8	5.2	—	—	—	—	13.0	13.0	10.0	15.0	0.6	600
ECWHA3C112( )( )	0.0011	17.8	5.4					13.1	13.1	10.0	15.0	0.6	
ECWHA3C122( )( )	0.0012	17.8	5.5					13.2	13.2	10.0	15.0	0.6	
ECWHA3C132( )( )	0.0013	17.8	5.7					13.4	13.4	10.0	15.0	0.6	
ECWHA3C152( )( )	0.0015	17.8	5.9					13.7	13.7	10.0	15.0	0.6	500
ECWHA3C162( )( )	0.0016	17.8	6.1					13.9	13.9	10.0	15.0	0.6	
ECWHA3C182( )( )	0.0018	17.8	6.4					14.1	14.1	10.0	15.0	0.6	
ECWHA3C202( )( )	0.0020	17.8	6.6					14.3	14.3	10.0	15.0	0.6	
ECWHA3C222( )( )	0.0022	17.8	6.7					14.5	14.5	10.0	15.0	0.6	400
ECWHA3C242( )( )	0.0024	17.8	7.0					14.7	14.7	10.0	15.0	0.6	
ECWHA3C272( )( )	0.0027	17.8	5.2					13.0	13.0	10.0	15.0	0.6	600
ECWHA3C302( )( )	0.0030	17.8	5.5					13.2	13.2	10.0	15.0	0.6	
ECWHA3C332( )( )	0.0033	17.8	5.6					13.4	13.4	10.0	15.0	0.6	
ECWHA3C362( )( )	0.0036	17.8	5.7	13.5	13.5	10.0	15.0	0.6					
ECWHA3C392( )( )	0.0039	17.8	6.0	13.8	13.8	10.0	15.0	0.6	500				
ECWHA3C432( )( )	0.0043	17.8	6.2	13.9	13.9	10.0	15.0	0.6					
ECWHA3C472( )( )	0.0047	17.8	6.4	9.1	14.1	14.1	15.0	10.0	15.0	0.6			
ECWHA3C512( )( )	0.0051	17.8	6.6	9.4	14.4	14.4	15.0	10.0	15.0	0.6	400		
ECWHA3C562( )( )	0.0056	17.8	6.8	9.6	14.6	14.6	15.0	10.0	15.0	0.6			
ECWHA3C622( )( )	0.0062	17.8	7.1	9.8	14.8	14.8	15.0	10.0	15.0	0.6			
ECWHA3C682( )( )	0.0068	17.8	6.1	12.1	17.1	17.1	15.0	10.0	15.0	0.6	500		
ECWHA3C752( )( )	0.0075	17.8	6.5	12.4	17.4	17.4	15.0	10.0	15.0	0.6			
ECWHA3C822( )( )	0.0082	17.8	6.8	12.7	17.7	17.7	15.0	10.0	15.0	0.6	400		
ECWHA3C912( )( )	0.0091	17.8	7.1	13.0	18.0	18.0	15.0	10.0	15.0	0.6			
ECWHA3C103( )( )	0.010	20.3	6.4	12.3	17.3	17.3	17.5	10.0	17.5	0.6	500		
ECWHA3C113( )( )	0.011	20.3	6.6	12.5	17.5	17.5	17.5	10.0	17.5	0.6			
ECWHA3C123( )( )	0.012	20.3	6.8	12.8	17.8	17.8	17.5	10.0	17.5	0.6			
ECWHA3C133( )( )	0.013	20.3	7.1	13.0	18.0	18.0	17.5	10.0	17.5	0.6	400		
ECWHA3C153( )( )	0.015	20.3	7.6	13.5	18.5	18.5	17.5	10.0	17.5	0.6			
ECWHA3C163( )( )	0.016	20.3	7.9	13.8	18.8	18.8	17.5	10.0	17.5	0.6			
ECWHA3C183( )( )	0.018	20.6	8.2	14.1	19.1	21.1	17.5	10.0	17.5	0.8			
ECWHA3C203( )( )	0.020	20.6	8.7	14.6	19.6	21.6	17.5	10.0	17.5	0.8			
ECWHA3C223( )( )	0.022	20.6	9.1	15.0	20.0	22.0	17.5	10.0	17.5	0.8	300		
ECWHA3C243( )( )	0.024	20.6	9.6	15.4	20.4	22.4	17.5	10.0	17.5	0.8			
ECWHA3C273( )( )	0.027	20.6	10.0	15.9	20.9	22.9	17.5	10.0	17.5	0.8			
ECWHA3C303( )( )	0.030	20.6	10.7	16.5	21.5	23.5	17.5	10.0	17.5	0.8			
ECWHA3C333( )( )	0.033	20.6	11.2	17.0	22.0	24.0	17.5	10.0	17.5	0.8			
ECWHA3C363( )( )	0.036	20.6	11.7	17.5	22.5	24.5	17.5	10.0	17.5	0.8	200		
ECWHA3C393( )( )	0.039	20.6	12.1	18.0	23.0	25.0	17.5	10.0	17.5	0.8			
ECWHA3C433( )( )	0.043	20.6	12.8	18.6	23.6	25.6	17.5	10.0	17.5	0.8			
ECWHA3C473( )( )	0.047	20.6	13.4	19.2	24.2	26.2	17.5	10.0	17.5	0.8			

Suffix for lead crimped taped type  
 Capacitance tolerance code

Metallized Film

Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use. Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.