



ECWH8223HA
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Metallized Polypropylene Film Capacitor

Series : **ECWH(A)**

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



Features

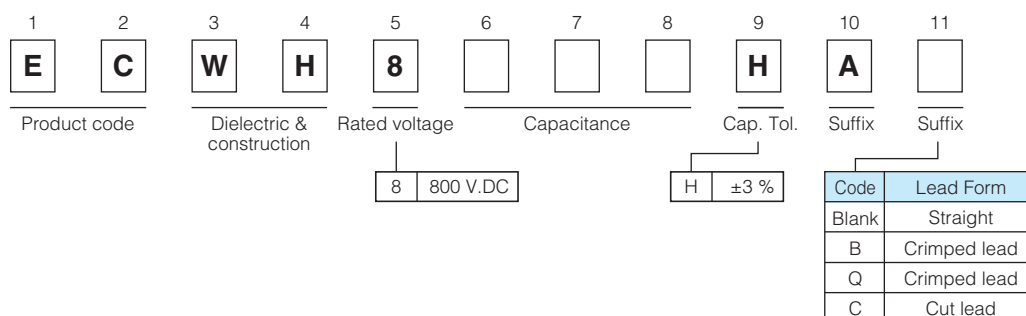
- Small size
- Excellent electrical characteristics
- Low loss
- Low Hum Sound Noise
- Flame retardant epoxy resin coating
- RoHS directive compliant

Recommended applications

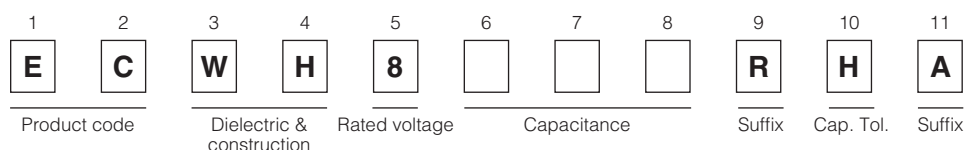
- General resonance circuit

Explanation of part number

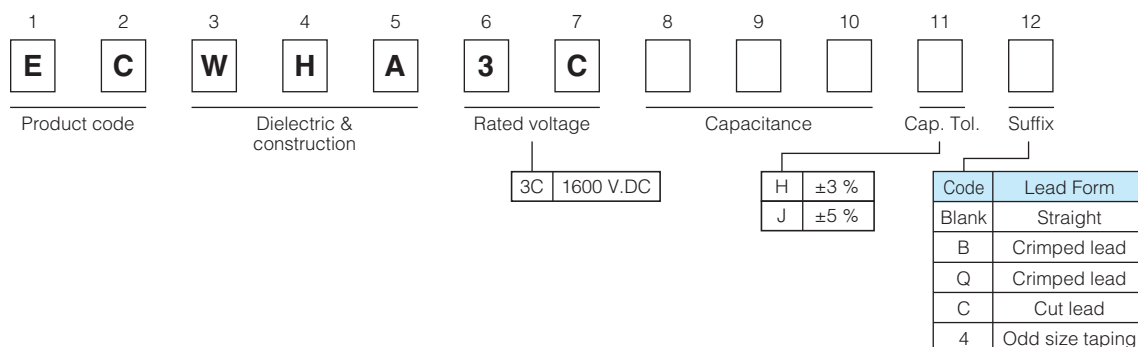
- Rated voltage 800 V.DC (Bulk)



- Rated voltage 800 V.DC (Odd size taping)



- Rated voltage 1600 V.DC

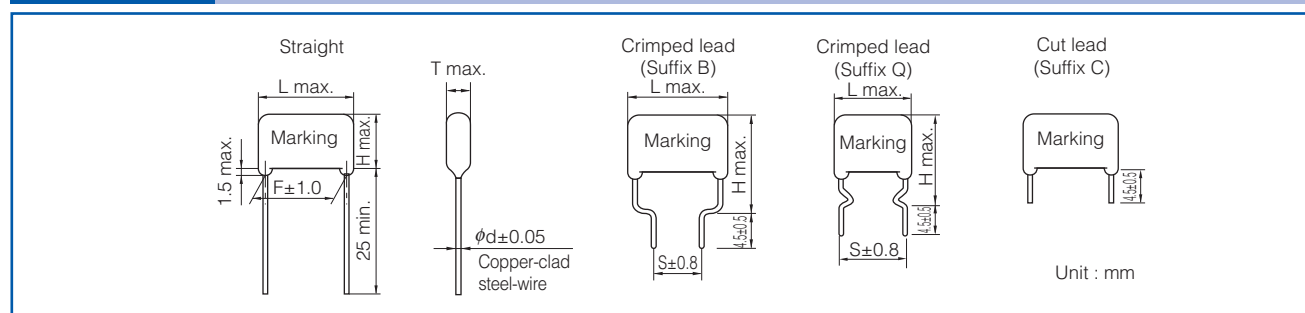


Specifications

Category temp. range (Including temperature-rise on unit surface)	- 40 °C to +105 °C	
Rated voltage	800 V.DC	1600 V.DC
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, 1 kHz)	
Withstand voltage	Between terminals : Rated volt. (V.DC) × 150 %, 60 s	
Insulation resistance (IR)	IR ≥ 30000 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

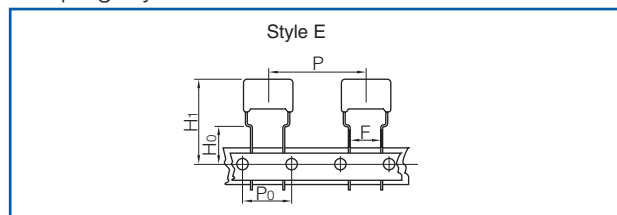


Packaging specifications for bulk package

- 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	suffix
			AD	AS	B	C	D	E		
ECWH(A)	800	0.010 to 0.047						○	Ammo	RHA
	1600	0.0010 to 0.047						○		() 4

- Lead spacing

Style	Lead spacing
E	7.5 mm

Rating · Dimensions · Quantity

- Rated voltage : 800 V.DC, Capacitance tolerance : ±3 % (H)

Part No.	Cap. (μF)	Dimensions (mm)									Min. order Q'ty	
		L max.	T max.	H max.			F	S		φd	Taping	Bulk
				Straight	Crimped lead (Suffix B)	Crimped lead (Suffix Q)		Crimped lead (Suffix B)	Crimped lead (Suffix Q)		7.5 mm	Straight Crimped lead
ECWH8103HA()	0.010	15.4	5.4	9.8	14.8	14.8	12.5	7.5	12.5	0.6	500	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		

* H : Capacitance tolerance code
() : Suffix for lead crimped taped type

Rating · Dimensions · Quantity

● Rated voltage : 1600 V.DC, Capacitance tolerance : $\pm 3\%$ (H), $\pm 5\%$ (J)

Part No.	Cap. (μ F)	Dimensions (mm)									Min. order Q'ty		
		L max.	T max.	H max.			F	S		ϕ d	Taping	Bulk	
				Straight	Crimped lead (Suffix B)	Crimped lead (Suffix Q)		Crimped lead (Suffix B)	Crimped lead (Suffix Q)		7.5 mm	Straight	Crimped lead
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			
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			
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			
ECWHA3C562□()	0.0056	17.8	6.8	9.6	14.6	14.6	15.0	10.0	15.0	0.6	400		
ECWHA3C622□()	0.0062	17.8	7.1	9.8	14.8	14.8	15.0	10.0	15.0	0.6	500		
ECWHA3C682□()	0.0068	17.8	6.1	12.1	17.1	17.1	15.0	10.0	15.0	0.6			
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			
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	300		
ECWHA3C223□()	0.022	20.6	9.1	15.0	20.0	22.0	17.5	10.0	17.5	0.8			
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			
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		600	800

* □ : Capacitance tolerance code

() : Suffix for lead crimped taped type