

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

1	2	3	4	5	6	7	8	9	10	11	12
E	C	W	H							A	
Product code	Dielectric & construction		Rated voltage		Capacitance				Cap. Tol.	Suffix	Suffix
				8	800VDC				H	±3 %	
										Suffix	Lead Form
										Blank	Straight
										B	Crimped lead
										Q	Crimped lead
										C	Cut lead

■Explanation of Part Number for Odd Size Taping

1	2	3	4	5	6	7	8	9	10	11	12
E	C	W	H						R		A
Product code	Dielectric & construction		Rated voltage		Capacitance				Ammo 7.5mm	Cap.tol	Suffix

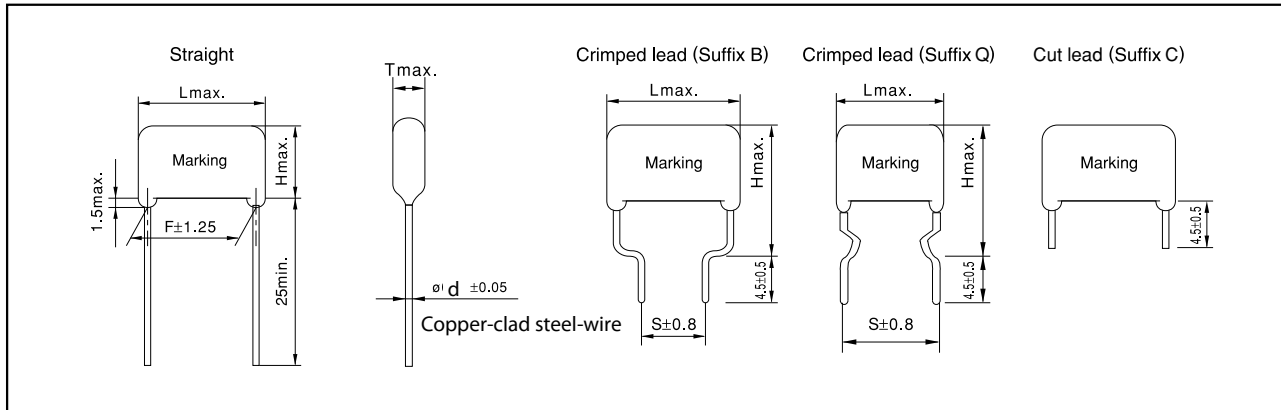
■Specifications

Category temp. range (Including temperature-rise on unit surface)	-40 °C to + 105 °C
Rated voltage	800 VDC
Capacitance range	0.010 μF to 0.047 μF
Capacitance tolerance	± 3 % (H)
Dissipation factor (tan δ)	tan δ ≤ 0.1 % (20°C, 1kHz) tan δ ≤ 0.2 % (20°C, 10kHz)
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)

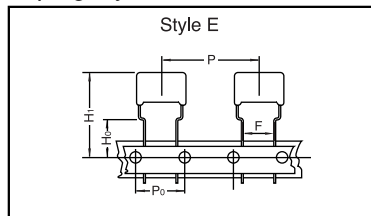


■Packaging Specifications for Bulk Package

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
			AD	AS	B	C	D	E	
ECWH(A)	800 VDC	0.010 to 0.047						○	Ammo

*See the column "Rating, Dimensions & Quantity Box" for packing quantity.

●Lead Spacing

Style	Lead Spacing
E	7.5 mm

■Rating & Dimensions

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

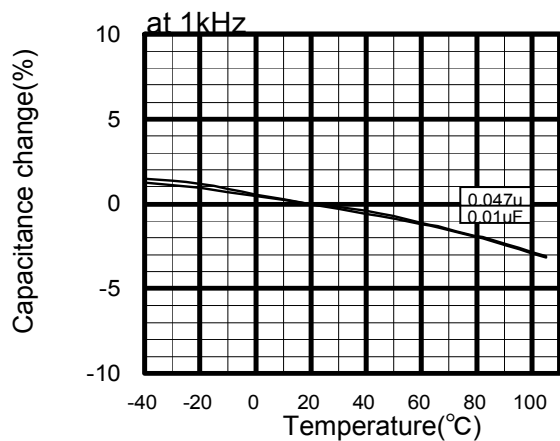
Part No.	Cap. (μF)	Dimensions (mm)										Min. order Q'ty	
		L _{max}	T _{max}	H _{max.}			F	S		G _{max.}	ød	Taping 7.5mm	
				Straight	Crimped lead (Suffix B)	Crimped lead (Suffix Q)		Crimped lead (Suffix B)	Crimped lead (Suffix Q)				
ECWH8103□A()	0.010	15.4	5.4	9.8	14.8	14.8	12.5	7.5	12.5	1.5	0.6	500	
ECWH8123□A()	0.012	15.4	5.8	10.2	15.2	15.2	12.5	7.5	12.5	1.5	0.6		
ECWH8153□A()	0.015	15.4	6.2	10.6	15.6	15.6	12.5	7.5	12.5	1.5	0.6		
ECWH8183□A()	0.018	15.7	6.6	11.0	16.0	18.0	12.5	7.5	12.5	1.5	0.8		
ECWH8223□A()	0.022	15.7	7.1	11.5	16.5	18.5	12.5	7.5	12.5	1.5	0.8	400	
ECWH8273□A()	0.027	15.7	7.6	12.0	17.0	19.0	12.5	7.5	12.5	1.5	0.8		
ECWH8333□A()	0.033	15.7	8.4	12.8	17.8	19.8	12.5	7.5	12.5	1.5	0.8	300	
ECWH8393□A()	0.039	15.7	8.9	13.3	18.3	20.3	12.5	7.5	12.5	1.5	0.8		
ECWH8473□A()	0.047	15.7	9.7	14.1	19.1	21.1	12.5	7.5	12.5	1.5	0.8		

↑ Suffix for lead crimped taped type
 ↑ Capacitance tolerance code

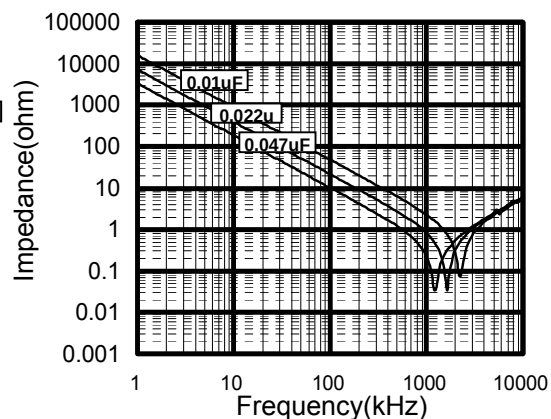
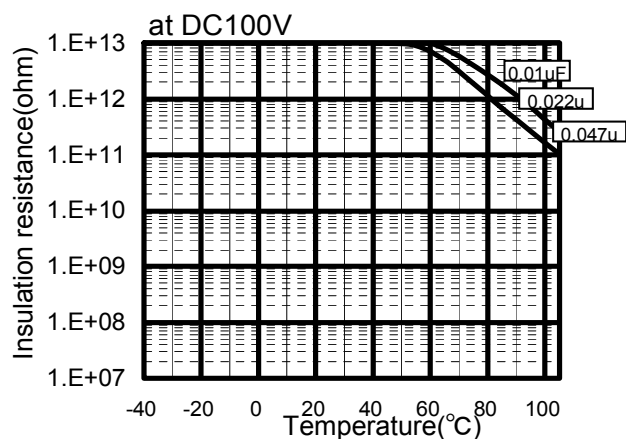
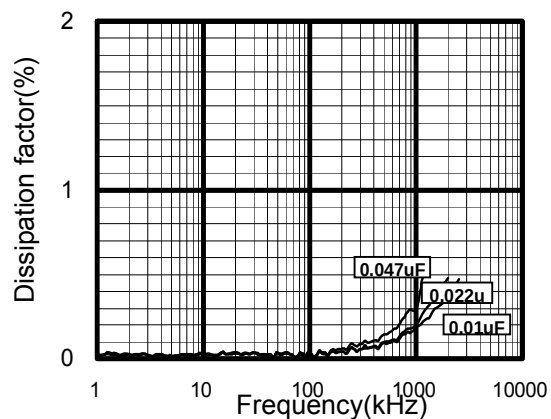
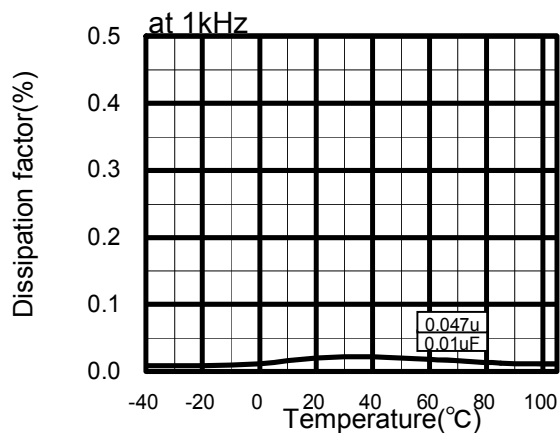
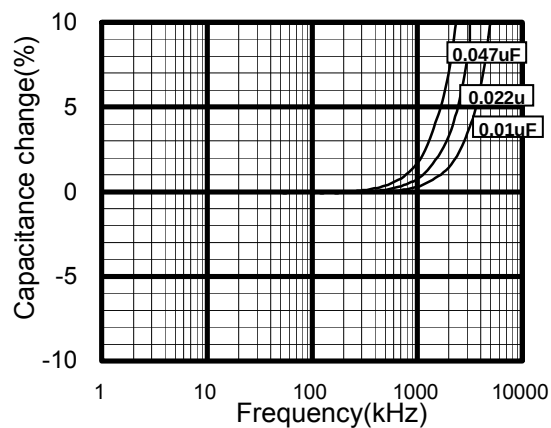
ECWH (A) Type DC800V series (Metallized Polypropylene Film)

Electrical Characteristics <Typical Data >

Temperature Characteristics



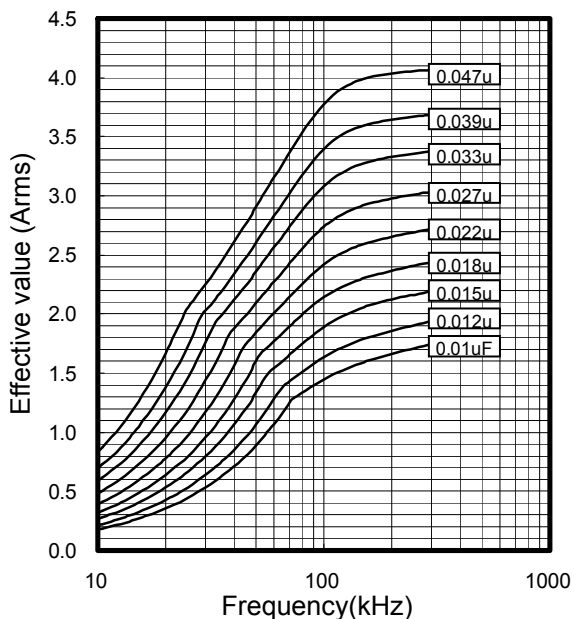
Frequency Characteristics



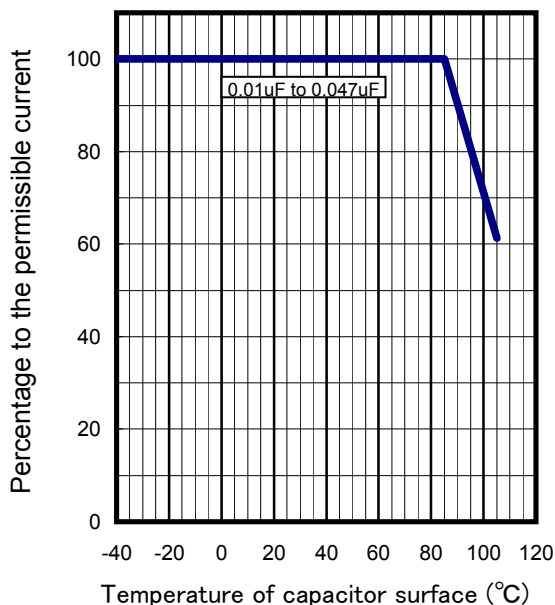
ECWH (A) Type DC800V series (Metallized Polypropylene Film)

Applicable Specifications

Permissible Current



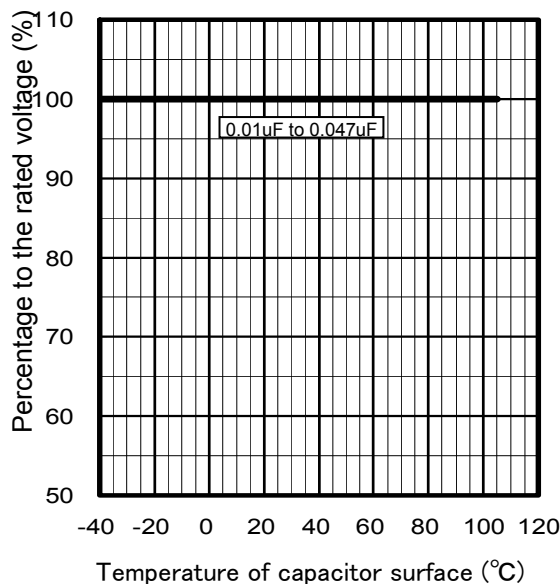
Permissible Current Derating by Temperature



Pulse Handling Capability (dv/dt)
(Max 10000cycles)

Rated Voltage	Capacitance (μ F)	Code	dV/dt (V/ μ s)	Current (A0-P)
DC 800V	0.010	103	500	5.0
	0.012	123		6.0
	0.015	153		7.5
	0.018	183		9.0
	0.022	223	1000	22.0
	0.027	273		27.0
	0.033	333		33.0
	0.039	393		39.0
	0.047	473		47.0

Voltage Derating by Temperature



*Please consult Panasonic if your condition exceeds the above

*P When you use this product, peak voltage must not exceed DC rated voltage.

*The current(0-P) value is calculated using nominal capacitance.