

**EN:** This Datasheet is presented by the manufacturer.

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# WH Series

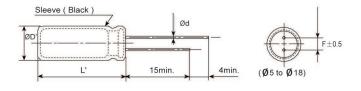
- Standard series for general purpose
- Wide temperature range from -40 ℃~+105 ℃
- Endurance: +105°C2,000hours
- RoHS Compliant

#### **◆**SPECIFICATIONS



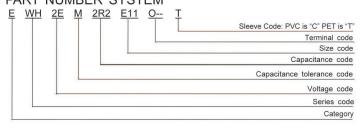
Items	Characteristics												
Category Temperature Range	-40 to +105℃(6.3 to 100V <sub>dc</sub> )												
Rated Voltage Range	6.3 to 450V <sub>dc</sub>												
Capacitance Tolerance	±20%(M) (at 20℃, 120Hz)												
Leakage Current	6.3 to 100Vdc		160 to 450Vdc								Where, I: Max. leakage current (µA),		
	I≦0.03CV or 4uA (at 1minute) I≦0.01CV or 3uA (at 2minute)			CV After 1 minutes Af					After 5 minutes		C : Nominal capacitance (µF),		
				CV≤1,000			I≦0.1CV+40μA		I≦0.03CV+15µA		V : Rated voltage (V)		
	Whichever is greater			CV>1.000			I≦0.04CV+100µA			I≦0.02CV+25µA		(at 20℃)	
Dissipation Factor (tanδ)	Rated voltage (V <sub>dc</sub> )	6.3	10	16	25	35	50	63	100	160~250	350~400	450	Î
	tanδ (Max.)	0.26	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.20	0.24	0.24	
		The second secon											(at 20°C, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )	6.3	10	16	25	35	50	63	100	160~250	350~400	450	(41200, 120112)
	Z(-25°C)/Z(+20°C)	5	4	3			2			3	6	6	(at 120Hz)
	Z(-40°C)/Z(+20°C)	12	10	8	5	4		3		-	-	-	(41 120112)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105°C.												
	Capacitance change	≤±20% of the initial value											
	D.F. (tanδ)	≤200% of the initial specified value											
	Leakage current	≤The initial specified value											
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without												
	voltage applied.												
	Capacitance change	≤±20% of the initial value											
	D.F. (tanδ)	≤200% of the initial specified value											
	Leakage current	≤ 200% of the initial specified value											

### ◆ DIMENSIONS [mm]



ØD	5	6.3	8	3	10	12.5	16	18	
Ød	0.5	0.5	0.5	0.6	0.6	0.6	0.8	0.8	
F	2.0	2.5	3	.5	5.0	5.0	7.5	7.5	
ØD'	<b>Ø</b> D+0.5max.								
L	L+2max.								

## PART NUMBER SYSTEM



<sup>\*\*</sup>Sleeve Code and Terminal Code should follow the part number system

#### RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Freq.(Hz) Cap.(uF)	50	120	300	1k	10k	100k
Cap.<10	0.65	1.00	1.35	1.75	2.30	2.50
10≤Cap.<100	0.75	1.00	1.25	1.50	1.75	1.80
100≤Cap.≤1000	0.80	1.00	1.15	1.30	1.40	1.50
Cap.>1000	0.85	1.00	1.03	1.05	1.08	1.08