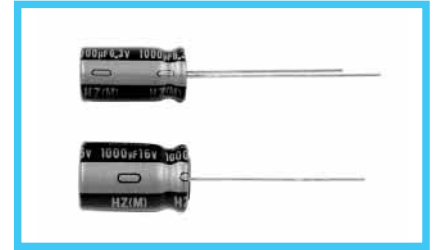


**HZ** Ultra Low Impedance series



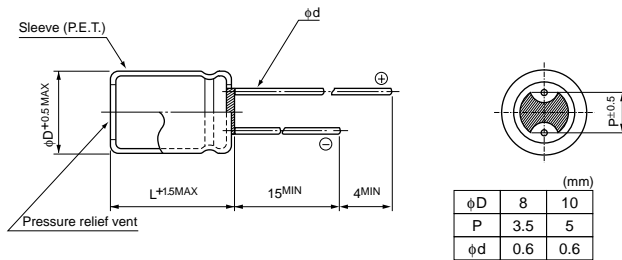
- Lower impedance than HN series.
- Adapted to the RoHS directive (2002/95/EC).



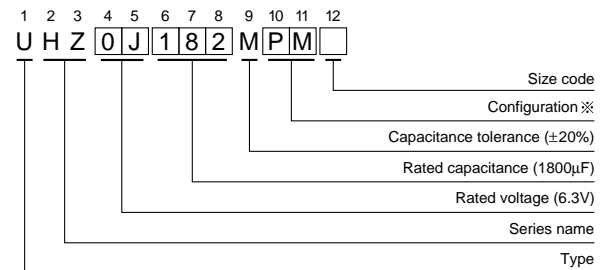
## Specifications

Item	Performance Characteristics				
Category Temperature	-25 ~ +105°C				
Rated Voltage Range	6.3 ~ 16V				
Rated Capacitance Range	470 ~ 3300μF				
Capacitance Tolerance	±20% (120Hz, 20°C)				
Leakage Current	After 2 minutes' application of rated voltage, leakage current is less than 0.03CV				
tan δ	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF				
	Rated voltage (V)	6.3	10	16	120Hz
	tan δ (MAX)	0.22	0.19	0.16	20°C
Stability at Low Temperature	Rated voltage (V)	6.3	10	16	120Hz
	Impedance ratio ZT / Z20 (MAX.)	Z=-25°C / Z+20°C	3	3	3
Endurance	After an application of D.C. bias voltage plus the rated ripple current for 2000 hours at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors meet the characteristic requirements listed below.				
	Capacitance change	Within ±30% of initial value			
	tan δ	200% or less of initial specified value			
	Leakage current	Initial specified value or less			
Marking	Printed with gold color on black sleeve.				

## Radial Lead Type



## Type numbering system (Example : 6.3V 1800μF)



### ※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
8 - 10	PM

## Standard ratings

Cap. (μF)	V (Code)	Item Code	6.3 (0J)			10 (1A)			16 (1C)		
			Case size φD × L (mm)	Impedance (mΩ MAX.) 20°C / 100kHz	Rated ripple (mA rms) 105°C / 100kHz	Case size φD × L (mm)	Impedance (mΩ MAX.) 20°C / 100kHz	Rated ripple (mA rms) 105°C / 100kHz	Case size φD × L (mm)	Impedance (mΩ MAX.) 20°C / 100kHz	Rated ripple (mA rms) 105°C / 100kHz
470	471										
680	681					▲ 10 × 12.5	12	2288	▲ 10 × 12.5	12	2280
820	821					● 10 × 16	10	2960	● 10 × 16	10	2960
1000	102		▲ 10 × 12.5	12	2280	● 10 × 16	10	2960	▲ 8 × 20	9	2880
1200	122		● 10 × 16	10	2960	○ 8 × 20	9	2880	● 10 × 20	7	3770
1500	152		▲ 10 × 12.5	12	2280	▲ 8 × 20	9	2880	● 10 × 20	7	3770
1800	182		● 10 × 16	10	2960	▲ 8 × 20	9	2880	● 10 × 20	7	3770
2200	222		○ 10 × 16	10	2960	▲ 10 × 20	7	3770			
2700	272		○ 10 × 20	7	3770						
3300	332		○ 10 × 25	6.5	4690						

Please refer to page 21, 22, 23 about the formed or taped product spec.  
Please refer to page 3 for the minimum order quantity.

- ▲ : In this case, [6] will be put at 12th digit of type numbering system.
- : In this case, [3] will be put at 12th digit of type numbering system.
- : In this case, [9] will be put at 12th digit of type numbering system.