

Miniature Sized, Vibration Resistance For +125°C or 135°C Use (125°C / 135°C 3000hour)



- Smaller and higher ripple current and Anti-vibration structuring than UBY.
- Suited for automobile electronics where heavy duty services are indispensable.
- Compliant to the RoHS directive(2011/65/EU).



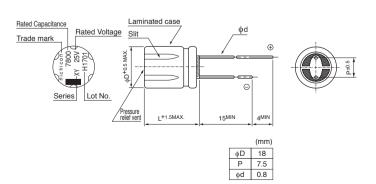


Specifications

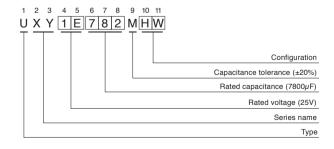
Item	Performance Characteristics						
Category Temperature Range	-40 to +135°C						
Rated Voltage Range	25 to 50V						
Rated Capacitance Range	2300 to 11000µF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Leakage Current	After 1 minute's application of ra	ated volta	age at 20	°C, leaka	ge curre	ent is not more than 0.03CV (μA)	
Tangent of loss angle (tan δ)	Rated voltage (V) 25 35 50 120Hz, 20°C tan δ (MAX.) 0.14 0.12 0.10						
					120H	7	
. O. 177	Rated voltage (V)		25	35	50		
Stability at Low Temperature	Impedance ratio Z-25°C / Z		2	2	2		
	ZT / Z20 (MAX.) Z-40°C / Z	Z+20°C	4	4	4		
	The specifications listed below shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 3000 hours at 125°C or 135°C, the peak voltage shall not exceed the rated voltage.						
Endurance	Capacitance change	Within ±	±30% of 1	the initial	capacita	ance value	
	tan δ 300% or less than tha initial specified value						
	Leakage current Less than or equal to the initial specified value						
Shelf Life	After storing the capacitors under no load at 125°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.						
The specifications listed below shall be met when the capacitors are restored to 20°C after subjected to vibration or room temperature(15 to 35°C).						ors are restored to 20°C after subjected to vibration conditions at	
	Capacitance change Within ±5% of the initial capacitance value						
	tan δ Less than or equal to the initial specified value						
	Leakage current Less than or equal to the initial specified value						
Vibration	Vibration conditions						
	Vibration frequency range 10 to 2000Hz						
	Amplitude or acceleration Total amplitude either 1.5mm or 392m/S²(40G) whichever is looser Sweep rate 0.5 octaves/minute						
	Sweep rate U.5 octaves/minute Vibration direction and time X,Y,Z in each direction for two hours, totalling six hours						
	Fixed						
Marking	Black print on the case top.						
9	z.ac., print on the eace top.						

The UXY series places emphasis on high ripple current, as a result the lifetime calculation is different than other series. Please contact Nichicon for details.

■ Radial Lead Type



Type numbering system (Example: 25V 7800µF)



Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.



■ Dimensions

	V (Code)	25(1E)					
Item		Case size	ESR(Ω) MAX.	Rated ripple (mArms)		
Cap.(µF)	Cap.(µF) Code		20℃/100kHz	–40°C/100kHz	125℃ /100kHz	135℃ /100kHz	
7800	782	18×31.5	0.023	0.19	5380	3330	
11000	113	18×40	0.019	0.13	6800	3900	

		V (Code)	35(1V)					
	Item Cap.(µF) Code		Case size	ESR(Ω) MAX.		Rated ripple (mArms)		
			$\phi D \times L$ (mm)	20℃/100kHz	–40°C/100kHz	125℃ /100kHz	135℃ /100kHz	
	5000	502	18×31.5	0.023	0.19	5380	3330	
	7300	732	18×40	0.019	0.13	6800	3900	

		V (Code)	50(1H)					
	Item Cap.(µF) Code		Case size	ESR(Ω) MAX.	Rated ripple (mArms)		
Cap.(φD × L (mm) 20°C /100kHz	–40°C/100kHz	125℃ /100kHz	135℃ /100kHz		
	2300	232	18×31.5	0.029	0.26	5050	2910	
	3300	332	18×40	0.024	0.20	5930	3420	

• Frequency coefficient of rated ripple current

Cap. (µF)	120Hz	1kHz	10kHz	100kHz or more
2300 to 3300	0.75	0.90	0.95	1.00
5000 to 11000	0.85	0.95	0.98	1.00