

**nichicon**

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WG ← Low Impedance WF → Low Impedance WT

Item	Performance Characteristics					
Category Temperature Range	-55 to +105°C					
Rated Voltage Range	6.3 to 35V					
Rated Capacitance Range	1 to 220μF					
Capacitance Tolerance	±20% at 120Hz, 20°C					
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA) , whichever is greater.					
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C					
	Rated voltage (V)	6.3	10	16	25	35
	tan δ ( MAX.)	0.22	0.19	0.16	0.14	0.12
Stability at Low Temperature	Measurement frequency : 120Hz					
	Rated voltage (V)		6.3	10	16	25
	Impedance ratio	Z-25°C / Z+20°C	2	2	2	2
	ZT / Z20 (MAX.)	Z-55°C / Z+20°C	4	4	3	3
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C.			Capacitance change	Within ±20% of the initial capacitance value	
				tan δ	200% or less than the initial specified value	
				Leakage current	Less than or equal to the initial specified value	
Shelf Life	After storing the capacitors under no load at 105°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.					
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.			Capacitance change	Within ±10% 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	
Marking	Black print on the case top.					

The diagram shows a 14-digit part number: **U W F 1 C 1 0 0 M C L 1 G B**. Each digit is enclosed in a box. Lines connect specific digits to a legend table on the right:

- Digit 13 (G) connects to **Taping code**.
- Digit 12 (B) connects to **Configuration**.
- Digit 11 (L) connects to **Capacitance tolerance ( $\pm 20\%$ )**.
- Digit 10 (C) connects to **Rated capacitance ( $10\mu\text{F}$ )**.
- Digit 9 (M) connects to **Rated voltage ( $16\text{V}$ )**.
- Digit 8 (0) connects to **Series name**.
- Digit 7 (0) connects to **Type**.

$\phi\text{D}$	Code
4 to 6.3	GB
8	GS

[illegible]

- |             |       |        |        |       |                |
|-------------|-------|--------|--------|-------|----------------|
| Frequency   | 50 Hz | 120 Hz | 300 Hz | 1 kHz | 10 kHz or more |
| Coefficient | 0.35  | 0.50   | 0.64   | 0.83  | 1.00           |

- Max. Impedance ( $\Omega$ ) at 20°C 100kHz  
Rated ripple current (mA<sub>rms</sub>) at 105°C 100kHz
- Taping specifications are given in page 23.
  - Recommended land size, soldering by reflow are given in page 18, 19.
  - Please select UJ(p.160) series if high C/V products are required.
  - Please refer to page 3 for the minimum order quantity.
- CAT.8100D**

CAT.8100D

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Nichicon:

<a href="#"><u>UWF1A151MBR1GS</u></a>	<a href="#"><u>UWF1V470MCL1GS</u></a>	<a href="#"><u>UWF0J221MCL1GS</u></a>	<a href="#"><u>UWF0J101MCL1GB</u></a>	<a href="#"><u>UWF1C100MCL1GB</u></a>
<a href="#"><u>UWF1E680MCL1GS</u></a>	<a href="#"><u>UWF1V100MCL1GB</u></a>	<a href="#"><u>UWF1A101MCL1GS</u></a>	<a href="#"><u>UWF1C220MCL1GB</u></a>	<a href="#"><u>UWF1C470MCL1GB</u></a>
<a href="#"><u>UWF1E330MCL1GB</u></a>	<a href="#"><u>UWF1V2R2MCL1GB</u></a>	<a href="#"><u>UWF0J330MCL1GB</u></a>	<a href="#"><u>UWF0J470MCL1GB</u></a>	<a href="#"><u>UWF0J680MCL1GB</u></a>
<a href="#"><u>UWF0J151MCL1GS</u></a>	<a href="#"><u>UWF1A220MCL1GB</u></a>	<a href="#"><u>UWF1A330MCL1GB</u></a>	<a href="#"><u>UWF1A470MCL1GB</u></a>	<a href="#"><u>UWF1A680MCL1GB</u></a>
<a href="#"><u>UWF1A151MCL1GS</u></a>	<a href="#"><u>UWF1C150MCL1GB</u></a>	<a href="#"><u>UWF1C330MCL1GB</u></a>	<a href="#"><u>UWF1C680MCL1GS</u></a>	<a href="#"><u>UWF1E150MCL1GB</u></a>
<a href="#"><u>UWF1E470MCL1GS</u></a>	<a href="#"><u>UWF1V010MCL1GB</u></a>	<a href="#"><u>UWF1V1R5MCL1GB</u></a>	<a href="#"><u>UWF1V3R3MCL1GB</u></a>	<a href="#"><u>UWF1V4R7MCL1GB</u></a>
<a href="#"><u>UWF1V6R8MCL1GB</u></a>	<a href="#"><u>UWF1V150MCL1GB</u></a>	<a href="#"><u>UWF1V330MCL1GS</u></a>	<a href="#"><u>UWF1C101MCL1GS</u></a>	<a href="#"><u>UWF1E100MCL1GB</u></a>
<a href="#"><u>UWF1E220MCL1GB</u></a>	<a href="#"><u>UWF1E4R7MCL1GB</u></a>	<a href="#"><u>UWF1V220MCL1GB</u></a>	<a href="#"><u>UWF0J220MCL1GB</u></a>	<a href="#"><u>UWF1E6R8MCL1GB</u></a>