
NICHICON Develops and Launches the UBR Series of Lead Type Aluminum Electrolytic Capacitors with High Temperature and Long-Life Assurance (Guaranteed for 5,000 hours at 125°C)

NICHICON CORPORATION has developed and launched the UBR series of lead type aluminum electrolytic capacitors with high temperature and long-life assurance (guaranteed for 5,000 hours at 125°C). Characteristics which are increasingly required in power supplies for communication base stations.

NICHICON will exhibit this product at TECHNO-FRONTIER 2024 to be held at Tokyo Big Sight from July 24 to 26.

Overview and Development Background

In power supplies for communication base stations, the internal temperature of the power supplies is rising due to the higher output caused by the higher density of component mounting and the increase in data communication volume. As a result, capacitors with higher temperature ratings are required. With the increase in small base stations, there is a demand for long-life products that are maintenance-free. To meet these market needs, NICHICON has developed and launched the UBR series of lead type aluminum electrolytic capacitors which is guaranteed for 5,000 hours at 125°C.

Features

The UBR series is based on the Company's accumulated technologies. It realizes long life for high-temperature by using large-capacity electrode foil and highly durable electrolyte. As a result, the UBR series has achieved a life span 2.5 times longer than the existing the UBT Series (450V rated).

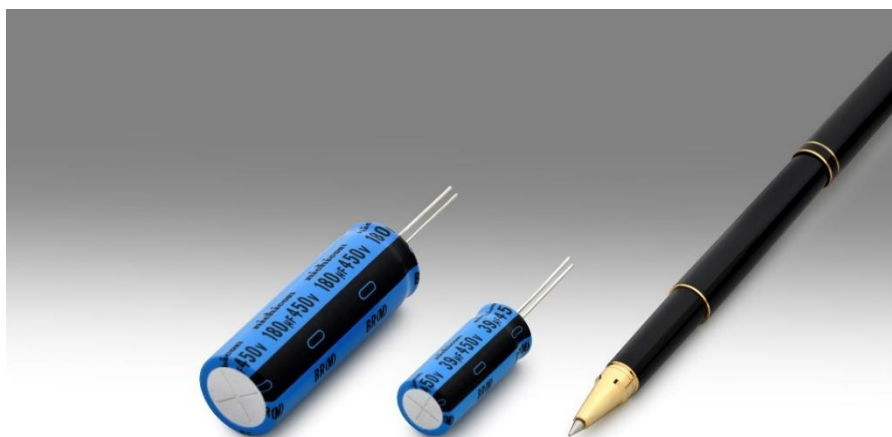
【UBR Series specifications list】

Rated Voltage (V)	Capacitance (μF)	Case Size øD×L(mm)	tanδ	Leakage Current(μA) (At 20°C after 1 minute)	Rated ripple current (mArms) (at 125°C/120Hz)
450	39	12.5 × 31.5	0.24	802	360
	50	12.5 × 35.5	0.24	1000	400
	60	12.5 × 40	0.24	1180	500
	100	18 × 31.5	0.24	1900	780
	120	18 × 36	0.24	2260	850
	140	18 × 40	0.24	2620	980
	160	18 × 46	0.24	2980	1120
	180	18 × 50	0.24	3340	1230

*Capacitance : 120Hz at 20°C

Main Specifications

- Series : UBR Series
- Rated voltage range : 450V
- Rated capacitance range : 39 to 180μ F
- Category temperature range : -40 to 125°C
- Product dimensions : ø12.5×31.5 L to ø12.5×40 L (3 sizes)
ø18×31.5 L to ø18×50 L (5 sizes)
- Life : 5000 hours guaranteed at 125°C (Rated ripple current superimposed)
- Terminal shape : Lead type
- Samples : From June 2024
- Mass production launch / Production capacity : From July 2024 [Planned production volume : 50,000 / month]
- Production plant : NICHICON (OHNO) CORPORATION
1-11-2 Shimoyoro, Ohno-shi, Fukui Pref., 912-0095 Japan
(ISO 9001, IATF 16949, and ISO 14001 certified)



UBR Series of Miniature Aluminum Electrolytic Capacitors

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