

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



ES

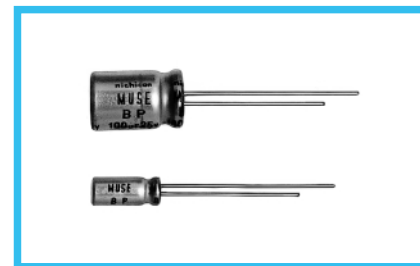
Bi-Polarized, For Audio Equipment

series



- Bi-polarized "nichicon MUSE" acoustic series.
- Suited for audio signal circuits.
- Compliant to the RoHS directive (2011/65/EU).

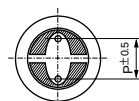
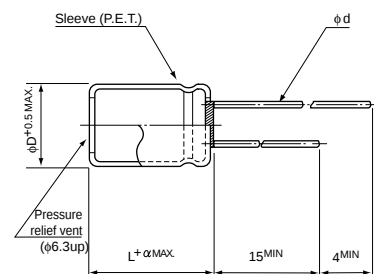
ES ← Bi-polarized FW



Specifications

Item	Performance Characteristics							
Category Temperature Range	−40 to +85°C							
Rated Voltage Range	6.3 to 50V							
Rated Capacitance Range	0.47 to 1000μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV 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	50	
	tan δ (MAX.)	0.24	0.20	0.16	0.16	0.14	0.12	
Stability at Low Temperature	Measurement frequency : 120Hz							
	Rated voltage (V)		6.3	10	16	25	35	50
	Impedance ratio	Z−25°C / Z+20°C	4	3	2	2	2	2
	ZT / Z20 (MAX.)	Z−40°C / Z+20°C	8	6	4	4	4	4
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 85°C with the polarity inverted every 250 hours.				Capacitance change		Within ±20% of the initial capacitance value	
					tan δ		150% 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 85°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.							
Marking	Printed with black color letter on clear green sleeve.							

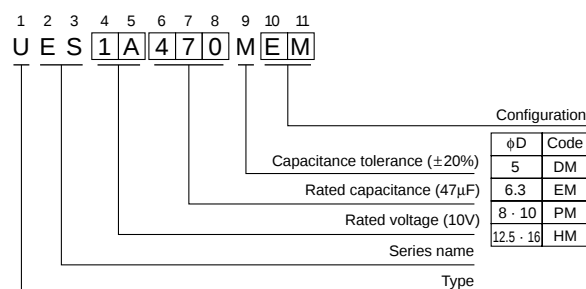
Radial Lead Type



	5	6.3	8	10	12.5	16
φD	5	6.3	8	10	12.5	16
P	2.0	2.5	3.5	5.0	5.0	7.5
φd	0.6	0.6	0.6	0.6	0.8	0.8

α	(φD < 10) 1.0
	(φD ≥ 10) 1.5

Type numbering system (Example : 10V 47μF)



- Please refer to page 20 about the end seal configuration.

Dimensions

φD × L (mm)

V		6.3	10	16	25	35	50
Cap.(μF)	Code	0J	1A	1C	1E	1V	1H
0.47	R47						5×11
1	010						5×11
2.2	2R2						5×11
3.3	3R3						5×11
4.7	4R7				5×11	5×11	6.3×11
10	100			5×11	5×11	6.3×11	8×11.5
22	220		5×11	6.3×11	6.3×11	8×11.5	10×12.5
33	330	5×11	6.3×11	6.3×11	8×11.5	10×12.5	10×16
47	470	6.3×11	6.3×11	8×11.5	10×12.5	10×12.5	10×20
100	101	8×11.5	10×12.5	10×12.5	10×16	10×20	12.5×25
220	221	10×12.5	10×16	10×20	12.5×25	12.5×25	16×25
330	331	10×16	10×20	12.5×20	12.5×25	16×25	16×31.5
470	471	10×20	12.5×20	12.5×25	16×25	16×25	
1000	102	12.5×25	16×25	16×25	16×31.5		

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

CAT.8100C