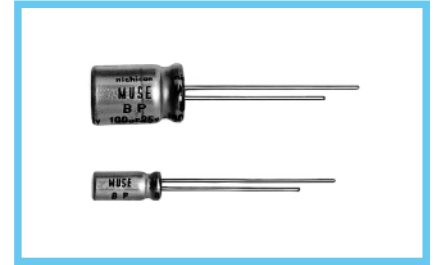
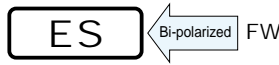


nichicon MUSE ES series Bi-Polarized, For Audio Equipment



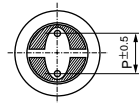
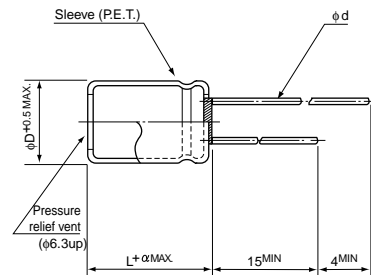
- Bi-polarized “nichicon MUSE” acoustic series.
- Suited for audio signal circuits.
- Adapted to the RoHS directive (2002/95/EC).



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.								
tan δ	Measurement frequency : 120Hz, Temperature : 20°C								
	Rated voltage (V)	6.3	10	16	25	35	50		
Stability at Low Temperature	Measurement frequency : 120Hz								
	Impedance ratio ZT / Z20 (MAX.)	Rated voltage (V)		6.3	10	16	25	35	50
		Z-25°C / Z+20°C	4	3	2	2	2	2	
Z-40°C / Z+20°C	8	6	4	4	4	4			
Endurance	After 1000 hours' application of rated voltage at 85°C with the polarity inverted every 250 hours, capacitors meet the characteristics requirement listed at right.		Capacitance change	Within ±20% of initial value					
			tan δ	150% or less of initial specified value					
			Leakage current	Initial specified value or less					
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.								
Marking	Printed with black color letter on clear green sleeve.								

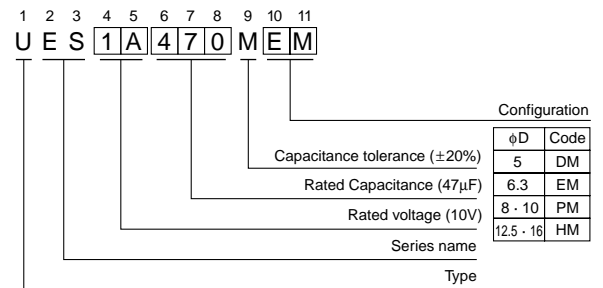
Radial Lead Type



	(mm)					
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

Cap.(μF)	Code	V						φD × L (mm)
		6.3	10	16	25	35	50	
		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
10	100			5 × 11	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	10 × 16
33	330	5 × 11	6.3 × 11	6.3 × 11	8 × 11.5	10 × 12.5	10 × 16	10 × 20
47	470	6.3 × 11	6.3 × 11	8 × 11.5	10 × 12.5	10 × 12.5	10 × 20	12.5 × 25
100	101	8 × 11.5	10 × 12.5	10 × 12.5	10 × 16	10 × 20	12.5 × 25	16 × 25
220	221	10 × 12.5	10 × 16	10 × 20	12.5 × 25	12.5 × 25	16 × 25	16 × 31.5
330	331	10 × 16	10 × 20	12.5 × 20	12.5 × 25	16 × 25	16 × 25	
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.