

**nichicon**

BP  
Bi-polarized

Anti-Solvent  
Feature

- MP ← Bi-polarized MA



Item	Performance Characteristics												
Category Temperature Range	-40 to +85°C												
Rated Voltage Range	6.3 to 50V												
Rated Capacitance Range	0.1 to 47μF												
Rated Capacitance Tolerance	±20% at 120Hz, 20°C												
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05CV or 10 (μA), whichever is greater.												
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz, Temperature : 20°C												
	Rated voltage (V)	6.3	10	16	25	35	50						
	tan δ (MAX.)	0.24	0.20	0.17	0.17	0.15	0.15						
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	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 2000 hours at 85°C with the polarity inverted every 250 hours.												
	Capacitance change	Within ±20% of the initial capacitance value											
	tan δ	200% or less than 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 white color letter on black sleeve.												

Technical drawing of the sleeve assembly. The side view shows a sleeve with a flange on the left and a central hole. Dimensions include: sleeve thickness  $\phi D \pm 0.5 \text{ MAX}$ , total length  $L \pm 1 \text{ MAX}$ , distance from flange to hole center  $15 \text{ MIN}$ , and distance from hole center to end  $4 \text{ MIN}$ . The hole diameter is  $\phi d$ . The cross-sectional view shows the sleeve with a central hole of diameter  $\phi d$  and a wall thickness  $P \pm 0.5$ .

	(mm)		
$\phi D$	4	5	6.3
P	1.5	2.0	2.5
$\phi d$	0.45	0.45	0.45

1 2 3 4 5 6 7 8 9 10 11

U M P 1 A 3 3 0 M D D

Configuration※

Capacitance tolerance ( $\pm 20\%$ )

Rated capacitance (33 $\mu$ F)

Rated voltage (10V)

Series name

Type

※ Configuration

$\phi$ D	Pb-free leadwire Pb-free PET sleeve
4 to 6.3	DD

V		<b>6.3</b>		<b>10</b>		<b>16</b>		<b>25</b>		<b>35</b>		<b>50</b>	
Cap.(μF)	Code	0J		1A		1C		1E		1V		1H	
<b>0.1</b>	0R1											4×5	1.0
<b>0.22</b>	R22											4×5	2.0
<b>0.33</b>	R33											4×5	2.8
<b>0.47</b>	R47											4×5	4.0
<b>1</b>	010											4×5	8.4
<b>2.2</b>	2R2									4×5	8.4	5×5	13
<b>3.3</b>	3R3							5×5	12	5×5	16	5×5	17
<b>4.7</b>	4R7					4×5	12	5×5	16	5×5	18	6.3×5	20
<b>10</b>	100			4×5	17	5×5	23	6.3×5	27	6.3×5	29		
<b>22</b>	220	5×5	28	6.3×5	33	6.3×5	37						
<b>33</b>	330	6.3×5	37	6.3×5	41	6.3×5	49						
<b>47</b>	470	6.3×5	45									Case size φ D × L (mm)	Rated ripple

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1.17	1.36	1.50

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.8100Y