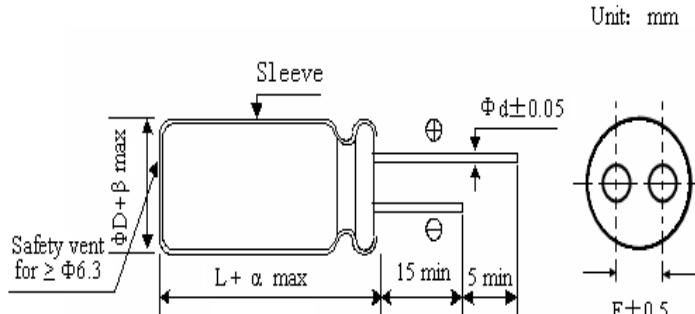


CDNP series**Features**

- ◆ For audio equipment Used in stereo, 2000 hours at 105°C.
- ◆ Standard Nonpolar, series for using in polarity reversal circuits.
- ◆ RoHS Compliant .

**Specifications**

Item	Performance Characteristics														
Temperature Range	-40~+105°C														
Rated Voltage Range	6.3~100Vdc														
Capacitance Range	0.47~1000μF														
Capacitance Tolerance	±20% (120Hz, +20°C)														
Leakage Current (+20°C,max.)	I≤0.03CV 或 3 (μA) After 2 minutes, whichever is greater measured with rated working voltage applied														
Dissipation Factor(tgδ) 120Hz, +20°C	Working Voltage(Vdc)	6.3	10	16	25	35	50	63							
	D.F(%)max.	24	20	16	16	14	12	10							
	Test conditions : C<10μF,20°C,1K Hz; C≥10μF,20°C,120 Hz														
Low Temperature Characteristics(120Hz)	Impedance ratio max.														
	Working Voltage(Vdc)	6.3	10	16	25	35	50	63							
	Z-25°C / Z+20°C	4	3	2	2	2	2	2							
	Z-40°C / Z+20°C	8	6	4	3	3	3	3							
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C(The polarity shall be reversed every 250 hours).														
	Capacitance Change	≤±20% of the initial value													
	D.F. (tgδ)	≤200% of the initial specified value													
	Leakage Current	≤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 load life characteristics listed above.														
Others	JISC-5101(IEC 60384)														

Diagram of Dimensions**Frequency Multipliers**

μF	Hz	60	120	400	1K	10K	100K
<10		0.80	1.00	1.30	1.45	1.65	1.70
10~100		0.80	1.00	1.23	1.36	1.48	1.53
220~1000		0.80	1.00	1.16	1.25	1.35	1.38

ΦD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8
α	(L< 20) + 1.5 (L≥20) + 2.0						
β	(D< 20) + 0.5 (D≥20) + 1.0						

CDNP series**Standard Ratings**

Voltage	6.3V		10V		16V		25V	
Cap(μF)	Case Size	Ripple Current						
4.7							<i>5×11</i>	26
10					<i>5×11</i>	43	<i>5×11</i>	44
22			<i>5×11</i>	60	<i>6.3×11</i>	71	<i>6.3×11</i>	71
33	<i>5×11</i>	62	<i>6.3×11</i>	70	<i>6.3×11</i>	90	<i>8×12</i>	110
47	<i>6.3×11</i>	76	<i>6.3×11</i>	95	<i>8×12</i>	122	<i>10×12</i>	150
100	<i>8×12</i>	154	<i>10×12</i>	188	<i>10×12</i>	208	<i>10×17</i>	250
220	<i>10×12</i>	245	<i>10×17</i>	294	<i>10×20</i>	360	<i>13×25</i>	478
330	<i>10×17</i>	330	<i>10×20</i>	360	<i>13×20</i>	480	<i>13×25</i>	615
470	<i>10×20</i>	360	<i>13×20</i>	538	<i>13×25</i>	638	<i>16×25</i>	720
1000	<i>13×25</i>	910	<i>16×25</i>	940	<i>16×31</i>	1090		

Voltage	35V		50V		63V		100V	
Cap(μF)	Case Size	Ripple Current						
0.47			<i>5×11</i>	12	<i>6.3×11</i>	14	<i>6.3×11</i>	17
1			<i>5×11</i>	18	<i>6.3×11</i>	22	<i>6.3×11</i>	25
2.2	<i>5×11</i>	18	<i>5×11</i>	27	<i>6.3×11</i>	33	<i>6.3×11</i>	39
3.3	<i>5×11</i>	27	<i>5×11</i>	29	<i>8×12</i>	36	<i>8×12</i>	49
4.7	<i>5×11</i>	34	<i>6.3×11</i>	42	<i>8×12</i>	44	<i>10×12</i>	60
6.8	<i>6.3×11</i>	42	<i>6.3×11</i>	48	<i>8×12</i>	65	<i>10×12</i>	72
10	<i>6.3×11</i>	48	<i>8×12</i>	65	<i>8×12</i>	73	<i>10×17</i>	98
22	<i>8×12</i>	96	<i>10×12</i>	118	<i>10×12</i>	125	<i>10×20</i>	165
33	<i>10×12</i>	135	<i>10×17</i>	155	<i>10×17</i>	170	<i>13×20</i>	275
47	<i>10×12</i>	154	<i>10×20</i>	200	<i>10×20</i>	215	<i>16×30</i>	277
100	<i>10×20</i>	275	<i>13×25</i>	370	<i>13×25</i>	384	<i>18×45</i>	431
220	<i>13×25</i>	560	<i>16×25</i>	645				
330	<i>16×25</i>	670	<i>16×30</i>	760				

Max Allowable Ripple Current (mA,rms) at 105°C 120Hz, Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices.