

NXR Series

• 105°C 4,000 ~ 7,000Hrs assured.

- Low Impedance.
- For SMPS, IP-Board, Adaptor, Automotive equipment.
- RoHS compliant.
- Halogen-free capacitors are also available.

• AEC-Q200 compliant : Please contact us for more details, test data, information.

Solvent-proof

NXP (LXZ)

NXR

Low Imp. Downsized



SPECIFICATIONS

Item	Characteristics														
Rated Voltage Range	6.3 ~ 35 V _{DC}														
Operating Temperature Range	-55 ~ +105°C														
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)														
Leakage Current	I = 0.01CV (µA) or 3µA, whichever is greater. Where, I:Max. Leakage current(µA) C:Nominal capacitance(µF) V:Rated voltage(V _{DC}) (at 20°C, 2 minutes)														
Dissipation Factor (Tanδ)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>TANδ(Max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table> <p>When the capacitance exceeds 1,000µF, 0.02 shall be added every 1,000µF increase. (at 20°C, 120Hz)</p>	Rated Voltage(V _{DC})	6.3	10	16	25	35	TANδ(Max.)	0.22	0.19	0.16	0.14	0.12		
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TANδ(Max.)	0.22	0.19	0.16	0.14	0.12										
Temperature Characteristics (Capacitance change ratio)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Z(-55°C)/Z(+20°C)</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> <p>(at 20°C, 120Hz)</p>	Rated Voltage(V _{DC})	6.3	10	16	25	35	Z(-55°C)/Z(+20°C)	4	3	3	3	3		
Rated Voltage(V _{DC})	6.3	10	16	25	35										
Z(-55°C)/Z(+20°C)	4	3	3	3	3										
Load Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) at 105°C for the specified period of time.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>≤ ±20% of the initial value</td> </tr> <tr> <td>Tanδ</td> <td>≤ 200% of the initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>≤ The initial specified value</td> </tr> </table> <table border="1"> <tr> <th>∅ D</th> <th>Life Time</th> </tr> <tr> <td>∅ 10</td> <td>4,000 hours</td> </tr> <tr> <td>∅ 12.5</td> <td>5,000 hours</td> </tr> <tr> <td>∅ 16, 18</td> <td>7,000 hours</td> </tr> </table>	Capacitance change	≤ ±20% of the initial value	Tanδ	≤ 200% of the initial specified value	Leakage Current	≤ The initial specified value	∅ D	Life Time	∅ 10	4,000 hours	∅ 12.5	5,000 hours	∅ 16, 18	7,000 hours
Capacitance change	≤ ±20% of the initial value														
Tanδ	≤ 200% of the initial specified value														
Leakage Current	≤ The initial specified value														
∅ D	Life Time														
∅ 10	4,000 hours														
∅ 12.5	5,000 hours														
∅ 16, 18	7,000 hours														
Shelf Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.</p> <p>Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage Current ≤ The initial specified value</p>														
Others	Satisfied characteristics KS C IEC 60384-4														

DIMENSIONS OF NXR Series

Unit(mm)

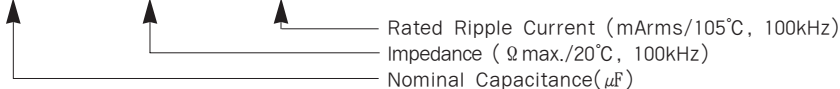
Marking : DARK BROWN SLEEVE, SILVER INK

∅D	10	12.5	16	18
∅d	0.6	0.6	0.8	0.8
F	5.0	5.0	7.5	7.5
∅D'	∅D + 0.5 max.			
L'	L + 2.0 max.			

RATINGS OF NXR Series

V _{DC} ∅D×L(mm)	6.3			10			16		
	μF	IMP.	Ripple	μF	IMP.	Ripple	μF	IMP.	Ripple
10×12.5	1,500	0.063	960	1,000	0.063	960	820	0.063	960
10×16	2,200	0.049	1,240	1,800	0.049	1,240	1,200	0.049	1,240
10×20	3,300	0.035	1,550	2,200	0.035	1,550	1,800	0.035	1,550
10×25	3,900	0.033	1,740	2,700	0.033	1,740	2,200	0.033	1,740
12.5×20	4,700	0.029	1,890	3,900	0.029	1,890	2,700	0.029	1,890
12.5×25	5,600	0.022	2,350	4,700	0.022	2,350	3,300	0.022	2,350
16×20	6,800	0.026	2,330	4,700	0.026	2,330	3,900	0.026	2,330
18×20	8,200	0.025	2,640	6,800	0.025	2,640	5,600	0.025	2,640
16×25	10,000	0.019	2,760	6,800	0.019	2,760	5,600	0.019	2,760
18×25	12,000	0.018	2,850	8,200	0.018	2,850	8,200	0.018	2,850

V _{DC} ∅D×L(mm)	25			35		
	μF	IMP.	Ripple	μF	IMP.	Ripple
10×12.5	470	0.063	960	330	0.063	960
10×16	820	0.049	1,240	680	0.049	1,240
10×20	1,200	0.035	1,550	820	0.035	1,550
10×25	1,500	0.033	1,740	1,200	0.033	1,740
12.5×20	1,800	0.029	1,890	1,500	0.029	1,890
12.5×25	2,700	0.022	2,350	1,800	0.022	2,350
16×20	2,700	0.026	2,330	1,800	0.026	2,330
18×20	3,300	0.025	2,640	2,200	0.025	2,640
16×25	3,900	0.019	2,760	2,700	0.019	2,760
18×25	4,700	0.018	2,850	3,300	0.018	2,850



RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF) \ Freq.(Hz)	120	1k	10k	50k	100k
330 ~ 470	0.50	0.85	0.94	0.96	1.00
680 ~ 1,800	0.60	0.87	0.95	0.97	1.00
2,200 ~ 3,900	0.75	0.90	0.95	0.97	1.00
4,700 ~ 12,000	0.85	0.95	0.98	0.99	1.00