

LR Series Snap-in Type 85°C



Features

- ◆ Snap-in design for audio equipment.
- ◆ Aluminum case designed explosion-proof vent. Non solvent-proof type
- ◆ RoHS Compliant

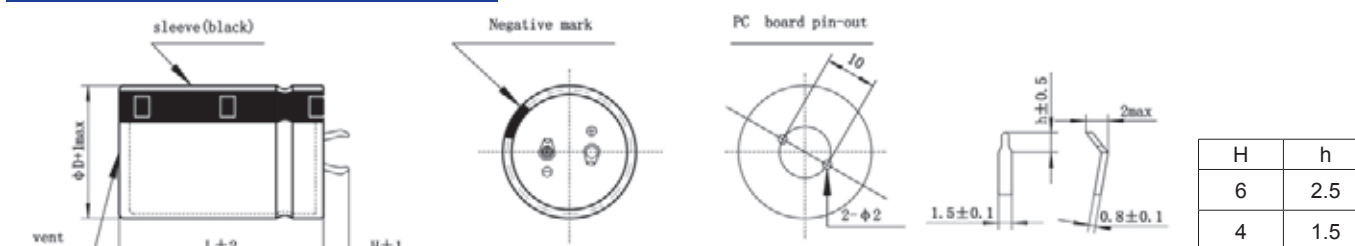
Specifications

Item	Performance Characteristics																																
Operating Temperature Range	-40~+85°C																																
Rated voltage Range	16 to 100 VDC																																
Capacitance Range	680~33000 µF																																
Capacitance Tolerance	±20%(120Hz, +20°C)																																
Leakage Current (+20°C, max.)	$I \leq 3 \sqrt{CV}$ (µA) After 5 minute with rated working voltage applied.																																
Dissipation Factor (tan δ , at 20°C , 120Hz)	Less than the value under table(%)																																
	<table border="1"> <tr> <td>µ F/Vdc</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>≤ 8200</td> <td>35</td> <td>30</td> <td>25</td> <td>20</td> <td>20</td> <td>15</td> <td>15</td> </tr> <tr> <td>10000 to 22000</td> <td>40</td> <td>35</td> <td>30</td> <td>30</td> <td>25</td> <td>15</td> <td>-</td> </tr> <tr> <td>≥ 27000</td> <td>40</td> <td>35</td> <td>35</td> <td>30</td> <td>25</td> <td>-</td> <td>-</td> </tr> </table>	µ F/Vdc	16	25	35	50	63	80	100	≤ 8200	35	30	25	20	20	15	15	10000 to 22000	40	35	30	30	25	15	-	≥ 27000	40	35	35	30	25	-	-
	µ F/Vdc	16	25	35	50	63	80	100																									
	≤ 8200	35	30	25	20	20	15	15																									
10000 to 22000	40	35	30	30	25	15	-																										
≥ 27000	40	35	35	30	25	-	-																										
Low Temperature Characteristics (at 120Hz)	Impedance ratio max																																
	<table border="1"> <tr> <td>Rated voltage(V)</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Z - 25°C / Z+20°C</td> <td>5</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> <tr> <td>Z - 40°C / Z+20°C</td> <td>15</td> <td>15</td> <td>12</td> <td>12</td> <td>12</td> <td>12</td> </tr> </table>	Rated voltage(V)	16	25	35	50	63	100	Z - 25°C / Z+20°C	5	4	4	4	4	4	Z - 40°C / Z+20°C	15	15	12	12	12	12											
	Rated voltage(V)	16	25	35	50	63	100																										
Z - 25°C / Z+20°C	5	4	4	4	4	4																											
Z - 40°C / Z+20°C	15	15	12	12	12	12																											
Endurance	Test condition																																
	Duration time :2000 Hrs Ambient temperature :+85°C Applied voltage :Rated DC working voltage After test requirement at +20°C Capacitance change : ≤ ±25% of the initial measured value Dissipation factor : ≤200% of the initial specified value Leakage current : ≤The initial specified value																																
Shelf Life	Test condition																																
	Duration time :1000 Hrs Ambient temperature :+85°C Applied voltage :None After test requirement at +20°C:Same limits as Endurance. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																																

Multiplier for Ripple Current vs. Frequency

CAP(µF)\Frequency(Hz)	50(60)	120	1K	10K	100K
CAP ≤ 100	0.80	1	1.36	1.48	1.53
100 < CAP ≤ 1000	0.80	1	1.25	1.35	1.38
1000 < CAP	0.80	1	1.17	1.25	1.28

Diagram of Dimensions:(unit:mm)



Case Size

WV (Vdc)	Cap (uF)	Size (mm)	Rated Ripple current (mArms/85°C /120Hz)
16	1200	22x20	0.95
16	1500	25x20	1.10
16	1800	22x25	1.20
16	2200	30x20	1.35
16	2700	25x25	1.75
16	3300	22x20	1.50
16	3300	25x30	2.00
16	3300	35x20	1.95
16	3900	22x45	2.30
16	3900	25x20	1.55
16	3900	25x35	2.35
16	3900	30x25	2.35
16	4700	22x20	1.35
16	4700	22x25	1.75
16	4700	22x50	2.75
16	4700	25x40	2.70
16	4700	30x30	2.70
16	4700	35x25	2.60
16	5600	25x45	2.90
16	5600	30x20	1.85
16	5600	30x35	2.90
16	6800	22x30	2.20
16	6800	25x20	1.70
16	6800	25x25	2.15
16	6800	25x50	3.20
16	6800	30x40	3.20
16	6800	35x30	3.15
16	8200	22x25	1.90
16	8200	22x35	2.40
16	8200	25x30	2.30
16	8200	30x45	3.35
16	8200	35x20	2.25
16	8200	35x35	3.30
16	10000	22x30	2.05
16	10000	22x40	2.65
16	10000	25x25	2.00
16	10000	25x35	2.45
16	10000	30x20	2.10
16	10000	30x25	2.50
16	10000	35x40	3.50
16	12000	22x35	2.20
16	12000	22x50	2.75
16	12000	25x30	2.15
16	12000	25x40	2.75
16	12000	30x30	2.72
16	12000	35x20	2.10
16	12000	35x40	3.50
16	12000	35x45	3.70
16	15000	22x40	2.50
16	15000	25x35	2.40
16	15000	25x45	3.10
16	15000	30x25	2.50
16	15000	30x35	3.10
16	18000	22x45	2.80
16	18000	25x40	2.60
16	18000	25x50	3.50
16	18000	30x30	2.65
16	18000	30x40	3.40
16	18000	35x30	3.45
16	22000	25x45	2.95

WV (Vdc)	Cap (uF)	Size (mm)	Rated Ripple current (mArms/85°C /120Hz)
16	22000	30x35	2.90
16	22000	30x45	3.80
16	22000	35x25	2.90
16	22000	35x35	3.80
16	27000	25x50	3.40
16	27000	30x40	3.25
16	27000	30x50	4.25
16	27000	35x30	3.35
16	27000	35x40	4.25
16	33000	30x45	3.70
16	33000	35x35	3.65
16	33000	35x45	4.50
25	820	22x20	0.75
25	1000	25x20	0.95
25	1500	30x20	1.30
25	1800	25x25	1.55
25	2200	22x35	1.85
25	2200	25x20	1.50
25	2200	25x30	1.80
25	2200	30x25	1.80
25	2200	35x20	1.75
25	2700	22x25	1.70
25	2700	22x45	2.20
25	2700	25x35	2.15
25	3300	22x20	1.50
25	3300	22x30	1.80
25	3300	22x50	2.50
25	3300	25x40	2.45
25	3300	30x20	1.85
25	3300	30x30	2.40
25	3300	35x25	2.45
25	3900	25x20	1.55
25	3900	25x25	1.10
25	3900	25x45	2.80
25	3900	30x35	2.80
25	4700	22x25	1.70
25	4700	22x35	2.30
25	4700	25x30	2.25
25	4700	30x40	3.25
25	4700	35x20	2.20
25	4700	35x30	3.15
25	5600	22x40	2.50
25	5600	25x35	2.40
25	5600	30x20	1.85
25	5600	30x25	2.50
25	5600	30x45	3.50
25	5600	35x35	3.50
25	6800	22x30	2.20
25	6800	22x50	2.65
25	6800	25x25	2.15
25	6800	25x40	2.65
25	6800	30x30	2.65
25	6800	35x40	3.80
25	8200	22x35	2.35
25	8200	25x30	2.30
25	8200	25x45	2.90
25	8200	30x35	2.85
25	8200	35x20	2.25
25	8200	35x25	3.05
25	8200	35x45	4.00

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mAmps/85°C /120Hz)
25	10000	22x40	2.65
25	10000	25x35	2.50
25	10000	25x50	3.30
25	10000	30x25	2.65
25	10000	30x40	3.30
25	10000	35x30	3.30
25	12000	22x45	2.90
25	12000	25x40	2.75
25	12000	30x30	2.80
25	12000	30x45	3.55
25	12000	35x25	2.65
25	12000	35x35	3.50
25	15000	25x45	3.15
25	15000	30x35	3.10
25	15000	30x50	4.15
25	15000	35x40	4.00
25	18000	25x50	3.55
25	18000	30x40	3.40
25	18000	35x30	3.50
25	18000	35x45	4.45
25	22000	30x45	3.85
25	22000	35x35	3.85
25	27000	35x40	4.30
25	33000	35x45	4.85
35	820	25x20	0.85
35	1000	22x25	1.00
35	1200	22x20	1.30
35	1200	22x30	1.45
35	1200	25x25	1.40
35	1200	30x20	1.40
35	1500	22x35	1.55
35	1500	25x30	1.55
35	1800	22x25	1.55
35	1800	22x40	1.45
35	1800	25x20	1.65
35	1800	30x25	1.75
35	1800	35x20	1.70
35	2200	22x45	1.95
35	2200	25x35	1.95
35	2200	30x30	1.95
35	2700	22x30	2.05
35	2700	25x25	2.00
35	2700	25x45	2.35
35	2700	30x20	2.05
35	2700	30x35	2.30
35	2700	35x25	2.30
35	3300	22x25	1.75
35	3300	22x35	2.25
35	3300	25x30	2.20
35	3300	25x50	2.70
35	3300	30x40	2.70
35	3300	35x30	2.65
35	3900	22x40	2.40
35	3900	25x35	2.30
35	3900	30x20	1.85
35	3900	30x25	2.40
35	3900	30x45	3.00
35	3900	35x20	2.50
35	3900	35x35	3.00
35	4700	22x30	2.20
35	4700	22x45	2.70
35	4700	25x25	2.15

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mAmps/85°C /120Hz)
35	4700	30x30	2.55
35	4700	30x50	3.55
35	4700	35x40	3.55
35	5600	22x35	2.35
35	5600	22x40	3.00
35	5600	22x50	2.60
35	5600	25x30	2.25
35	5600	25x40	3.00
35	5600	35x20	2.25
35	5600	35x25	2.85
35	5600	35x45	3.80
35	6800	30x25	2.60
35	6800	30x35	3.30
35	6800	35x30	3.05
35	6800	35x50	4.15
35	8200	22x45	2.90
35	8200	25x40	2.70
35	8200	30x30	2.75
35	8200	30x40	3.60
35	8200	35x35	3.30
35	10000	25x45	3.05
35	10000	30x35	3.00
35	10000	30x50	3.80
35	10000	35x25	3.20
35	10000	35x40	3.70
35	12000	25x50	3.45
35	12000	30x40	3.30
35	12000	35x30	3.40
35	12000	35x35	4.10
35	12000	35x45	3.80
35	15000	30x45	3.80
35	15000	35x50	4.80
35	18000	30x50	4.30
35	18000	35x40	4.15
35	22000	35x45	4.70
50	680	22x25	1.00
50	820	22x20	1.00
50	820	22x30	1.25
50	820	25x20	1.35
50	1000	25x20	1.50
50	1500	22x20	1.55
50	1500	22x30	1.80
50	1500	22x45	2.20
50	1500	25x35	2.15
50	1500	30x20	1.80
50	1500	30x25	2.15
50	1800	22x50	2.45
50	1800	25x20	1.65
50	1800	25x25	2.15
50	1800	25x40	2.45
50	1800	35x25	2.40
50	2200	22x25	1.85
50	2200	22x35	2.35
50	2200	25x30	2.30
50	2200	25x50	2.65
50	2200	30x35	2.60
50	2200	35x20	2.60
50	2700	22x45	2.45
50	2700	25x35	2.50
50	2700	30x25	2.60
50	2700	30x45	3.00

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mA _{rms} /85°C /120Hz)
50	2700	35x35	2.95
50	3300	22x35	2.20
50	3300	22x25	2.80
50	3300	25x40	2.80
50	3300	30x30	2.80
50	3300	30x50	3.30
50	3300	35x40	3.25
50	3900	22x40	2.45
50	3900	25x30	2.50
50	3900	25x45	3.00
50	3900	30x25	2.35
50	3900	30x35	3.00
50	3900	35x20	2.45
50	3900	35x20	3.15
50	3900	35x25	3.50
50	4700	22x45	2.60
50	4700	25x35	2.70
50	4700	25x50	3.40
50	4700	30x40	3.30
50	4700	35x30	3.35
50	4700	35x50	3.90
50	5600	22x50	2.90
50	5600	25x40	2.90
50	5600	30x30	3.00
50	5600	30x45	3.60
50	5600	35x20	2.85
50	5600	35x35	3.60
50	6800	25x40	3.30
50	6800	30x35	3.25
50	6800	30x50	4.10
50	6800	35x40	3.95
50	8200	30x40	3.55
50	8200	35x30	3.65
50	8200	35x45	4.40
50	10000	30x45	4.00
50	10000	35x35	4.00
50	10000	35x50	5.50
50	12000	35x40	4.35
50	15000	35x50	4.70
63	680	22x25	1.75
63	820	22x20	1.30
63	820	22x30	1.90
63	820	25x20	1.65
63	820	25x25	1.85
63	820	30x20	1.90
63	1000	22x35	1.85
63	1000	22x20	2.05
63	1000	25x30	2.00
63	1200	22x30	1.95
63	1200	22x40	2.25
63	1200	25x20	1.65
63	1200	25x25	1.90
63	1200	30x20	1.95
63	1200	30x25	2.20
63	1200	35x20	2.30
63	1500	22x25	1.90
63	1500	22x35	2.15
63	1500	22x45	2.60
63	1500	25x30	2.10
63	1500	25x35	2.65
63	1800	22x30	2.00
63	1800	22x40	2.35

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mA _{rms} /85°C /120Hz)
63	1800	22x50	2.90
63	1800	25x25	2.00
63	1800	25x40	2.90
63	1800	30x20	2.05
63	1800	30x25	2.35
63	1800	30x30	2.90
63	1800	35x20	2.45
63	1800	35x25	2.70
63	2200	22x35	2.20
63	2200	22x45	2.70
63	2200	25x30	2.15
63	2200	25x35	2.75
63	2200	25x45	3.25
63	2200	30x30	2.50
63	2200	30x35	3.20
63	2200	35x20	2.10
63	2700	22x40	2.45
63	2700	25x35	2.35
63	2700	25x45	2.80
63	2700	30x25	2.50
63	2700	30x35	2.75
63	2700	30x45	3.30
63	2700	35x25	2.95
63	2700	35x30	3.65
63	3300	22x45	2.80
63	3300	25x40	2.60
63	3300	25x50	3.20
63	3300	30x30	2.70
63	3300	30x40	3.20
63	3300	30x50	3.80
63	3300	35x30	3.15
63	3300	35x35	4.00
63	3900	25x45	2.85
63	3900	30x35	2.85
63	3900	30x45	3.35
63	3900	35x35	3.35
63	3900	35x40	4.30
63	4700	25x50	3.20
63	4700	30x40	3.10
63	4700	30x50	3.80
63	4700	35x30	3.20
63	4700	35x50	4.50
63	5600	30x45	3.45
63	5600	35x35	3.40
63	5600	35x40	4.35
63	6800	30x50	3.90
63	6800	35x40	3.75
63	6800	35x50	4.60
63	8200	35x45	4.20
63	10000	35x50	4.80
80	680	22x35	2.25
80	680	25x30	2.15
80	820	22x30	2.05
80	820	22x40	2.45
80	820	25x20	1.65
80	820	25x25	2.00
80	820	25x35	2.35
80	820	30x20	2.05
80	820	30x25	2.40
80	820	35x20	2.55
80	1000	22x25	1.85
80	1000	22x35	2.20

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mAmps/85°C /120Hz)
80	1000	22x35	2.60
80	1000	25x30	2.15
80	1000	25x40	2.60
80	1000	30x30	2.60
80	1000	35x20	2.10
80	1200	22x30	2.45
80	1200	22x40	1.95
80	1200	25x25	2.30
80	1200	25x35	2.85
80	1200	25x45	1.90
80	1200	30x20	2.40
80	1200	30x25	2.80
80	1200	30x35	2.00
80	1200	35x25	2.95
80	1500	22x35	2.15
80	1500	22x50	2.60
80	1500	25x30	2.10
80	1500	25x40	2.65
80	1500	25x50	3.30
80	1500	30x30	2.65
80	1500	30x40	3.20
80	1500	35x30	3.25
80	1800	22x40	2.35
80	1800	22x45	2.70
80	1800	25x45	2.85
80	1800	30x25	2.40
80	1800	30x35	2.85
80	1800	30x45	3.55
80	1800	35x20	2.50
80	1800	35x20	3.00
80	1800	35x25	3.50
80	2200	25x35	2.75
80	2200	25x35	3.25
80	2200	30x30	2.55
80	2200	30x40	3.15
80	2200	30x50	4.05
80	2200	35x30	3.25
80	2200	35x40	3.90
80	2700	30x35	2.80
80	2700	30x45	3.60
80	2700	35x25	3.00
80	2700	35x35	3.55
80	2700	35x45	4.45
80	3300	25x50	3.25
80	3300	30x40	3.15
80	3300	30x50	4.10
80	3300	35x30	3.20
80	3300	35x40	3.95
80	3300	35x50	5.05
80	3900	30x45	3.45
80	3900	35x35	3.40
80	3900	35x45	4.35
80	4700	30x45	3.85
80	4700	35x40	3.75
80	4700	35x50	4.85
80	5600	35x45	4.10
80	6800	35x50	4.65

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mAmps/85°C /120Hz)
100	680	22x25	1.75
100	680	22x35	2.15
100	680	22x45	2.65
100	680	25x30	2.10
100	680	25x35	2.70
100	820	22x30	1.85
100	820	22x40	2.40
100	820	22x50	3.00
100	820	25x25	1.80
100	820	25x40	3.00
100	820	30x20	1.90
100	820	30x25	2.35
100	820	35x20	2.45
100	820	35x25	2.85
100	1000	22x45	2.70
100	1000	25x35	2.35
100	1000	25x40	3.10
100	1000	25x50	2.35
100	1000	30x30	3.00
100	1000	30x35	3.30
100	1000	35x30	3.05
100	1200	22x40	2.20
100	1200	22x50	3.00
100	1200	25x30	2.75
100	1200	30x25	2.20
100	1200	30x30	3.05
100	1200	30x40	3.60
100	1200	35x20	2.30
100	1200	35x25	2.90
100	1200	35x35	3.30
100	1500	22x45	2.55
100	1500	25x35	3.60
100	1500	25x50	3.20
100	1500	30x35	3.40
100	1500	30x50	3.90
100	1500	35x30	3.40
100	1500	35x40	3.95
100	1800	22x50	2.85
100	1800	25x40	2.85
100	1800	30x30	2.90
100	1800	30x40	3.70
100	1800	35x25	2.75
100	1800	35x35	3.40
100	1800	35x45	4.15
100	2200	25x45	3.20
100	2200	30x35	3.20
100	2200	30x50	3.95
100	2200	35x30	3.00
100	2200	35x40	3.80
100	2200	35x50	4.75
100	2700	30x40	3.55
100	2700	35x35	3.25
100	2700	35x45	4.30
100	3300	30x50	3.75
100	3300	35x50	4.95
100	3900	35x40	4.30
100	4700	35x50	4.50