

KPO Large Capacitance Aluminum Electrolytic Capacitors For Audio

Power Supply Smoothing Use Standard Capacitors, Series KPO.

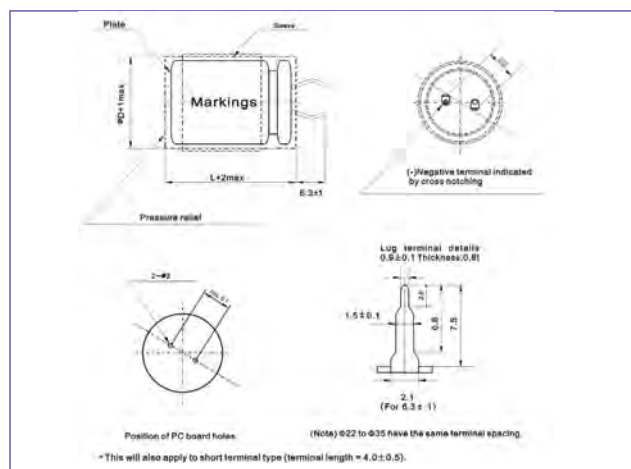
Adopting the newly developed formation method and composite electrolytic paper for audio application has reduced distortion achieving high-quality sound.

Best suited as power supply filters for sound quality priority audio equipment.

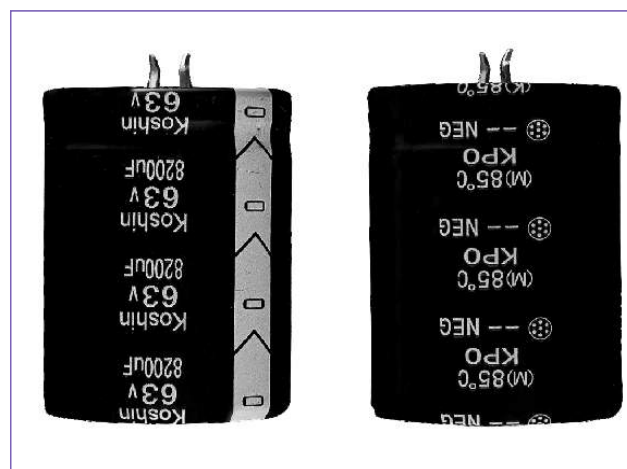
Printed circuit board terminal Snap-in type

Outline Drawing

Unit: mm



Photo



ROSH

Marking color: black print on yellow sleeve

Specifications

No.	Item	Performance										
1	Temperature range(℃)	-40 to +85										
2	Leakage current(μ A)	Less than 0.02CV or 5mA whichever is smaller (after five minutes) C: Rated Capacitance(μ F); V: Rated voltage(V) 20℃										
3	Capacitance tolerance (%)	±20 (20℃ , 120Hz)										
4	Tangent of the loss angle (Tan δ)	Rated voltage (V)		16	25	35	50	63	80	100	20℃ , 120Hz	
		Tan δ (max)		0.40	0.40	0.35	0.30	0.30	0.30	0.30		
5	Low temperature characteristics	Rated voltage (V)		16	25	35	50	63	80	100	120Hz	
		Impedance ratio (max)	$Z_{(-25℃)} / Z_{(+20℃)}$		4	4	4	3	3	3		3
			$Z_{(-40℃)} / Z_{(+20℃)}$		15	15	15	10	10	10		10
6	Endurance (85℃) (Applied ripple current)	Test time			1000hours							
		Leakage current			The initial specified value or less							
		Percentage of capacitance change			Within ±20% of initial value							
		Tangent of the loss angle			150% or less of the initial specified value							
7	Shelf life (85℃)	Test time			1000hours							
		Leakage current			The initial specified value or less							
		Percentage of capacitance change			Within ±20% of initial value							
		Tangent of the loss angle			150% or less of the initial specified value							
8	Applicable standards	JIS-C-5102 and JIS-C- 5141										

Coefficient of Frequency for Ripple Current

Rated voltage (v) \ Frequency (Hz)	50	120	1K	10K	20K
50 or less	0.95	1.00	1.10	1.15	1.15
63 to 100	0.95	1.00	1.16	1.30	1.33

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Dimension: Φ DXL(mm)

Ripple Current: A/rms at 120Hz, 85°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC Contents μF	16V								25V							
	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A
680																
1000																
1500																
2200									22X25	1.0						
3300	22X20	1.2							22X30	1.3	25X25	1.7				
4700	22X25	1.5							22X35	1.7	25X30	2.1	30X25	2.2		
6800	22X35	2.0	25X30	2.5	30X25	2.6			22X45	2.2	25X40	2.7	30X30	2.7	35X25	2.8
10000	22X45	2.7	25X35	3.2	30X30	3.3	35X25	3.4			25X50	3.0	30X40	3.1	35X30	3.1

V.DC Contents μF	35V								50V							
	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A
680																
1000									22X25	0.8						
1500	22X25	0.8							22X30	1.1	25X25	1.4				
2200	22X30	1.3	25X25	1.7					22X40	1.5	25X30	1.8	30X25	1.9		
3300	22X35	1.7	25X30	2.2	30X25	2.3			22X50	2.0	25X40	2.3	30X30	2.4	35X25	2.4
4700	22X45	2.3	25X40	2.8	30X30	2.8	35X25	2.9			25X50	2.4	30X40	2.4	35X30	2.5
6800			25X50	2.6	30X40	2.7	35X30	2.7					30X50	3.1	35X40	3.1
10000					30X50	3.4	35X40	3.5								

V.DC Contents μF	63V								80V							
	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A
680	22X25	0.7							22X30	0.7	25X25	1.0				
1000	22X30	0.9	25X25	1.2					22X35	1.0	25X30	1.2	30X25	1.3		
1500	22X35	1.2	25X30	1.5	30X25	1.6			22X50	1.3	25X40	1.6	30X30	1.6	35X25	1.7
2200	22X45	1.6	25X40	1.9	30X30	1.9	35X25	2.0			25X50	2.0	30X40	2.1	35X30	2.1
3300			25X50	2.0	30X40	2.1	35X30	2.1					30X50	2.2	35X40	2.2
4700					30X50	2.6	35X40	2.6							35X50	2.7
6800							35X50	3.3								

V.DC Contents μF	100V							
	Φ DXL	A	Φ DXL	A	Φ DXL	A	Φ DXL	A
680	22X35	0.8	25X30	1.1	30X25	1.1		
1000	22X50	1.2	25X40	1.4	30X30	1.4	35X25	1.5
1500			25X50	1.8	30X40	1.8	35X30	1.8
2200					30X40	1.8	35X40	1.8