SR SERIES ▪ 7MM HEIGHT, AUDIO 85°C TYPE

KEY FEATURES

LOW HEIGHT AUDIO

- **ALUMINUM ELECTROLYTIC CAPACITOR** ▪ THT type
- Endurance: 85°C ▪ 1 000 hours
- Optimized for high density insertion
- Low height ▪ 7mm
- Especially for audio applications

RoHS & REACH COMPLIANT

SPECIFICATIONS

Items		Performance Characteristics						
Operating Temperature Range		-40 ~ +85°C						
Rated Voltage Range	V_R	6.3 ~ 50V DC						
Surge Voltage	V_S	$V_S = 1.15 \cdot V_R$						
Capacitance Range	C_R	0.1 ~ 220µF						
Cap. Tolerance	ΔC	±20% (120Hz ▪ 20°C)						
Leakage Current (20°C ▪ V_R applied)	I_{LEAK}	≤ $0.01 \cdot C_R \cdot V_R$ or 3µA, whichever is greater ▪ After 2 minutes [I_{LEAK} (µA) ; C_R (µF) ; V_R (V)]						
Dissipation Factor % (20°C ▪ 120Hz)	tanδ	V_R (V DC)	6.3	10	16	25	35	50
		tanδ (%)	24	20	16	14	12	10
Low Temperature Characteristics at 120Hz	Z ratio max.	V_R (V DC)	6.3	10	16	25	35	50
		Z-25°C/Z+20°C	4	3	2	2	2	2
		Z-40°C/Z+20°C	8	6	4	4	3	3

Lifetime Test		
Endurance 85°C (V_R applied)	Test	**1 000 hours**
	△C/C_R	≤ ±20% of initial measured value
	tanδ	≤ 200% of initial specified value
	I_{Leak}	≤ the initial specified value
Shelf Life 85°C (V_R = 0)	Test	**1 000 hours**
	△C/C_R	≤ ±20% of initial measured value
	tanδ	≤ 200% of initial specified value
	I_{Leak}	≤ the initial specified value
	Before measurement: Restore capacitor to 20°C, apply V_R for 30 min according JIS-C-5101-4	

MULTIPLIER K_f for RIPPLE CURRENT vs. FREQUENCY

C_R (µF) / Frequency (Hz)	50/60	100/120	300	1k	≥ 10k
0.1 ~ 220	0.7	1	1.17	1.36	1.5

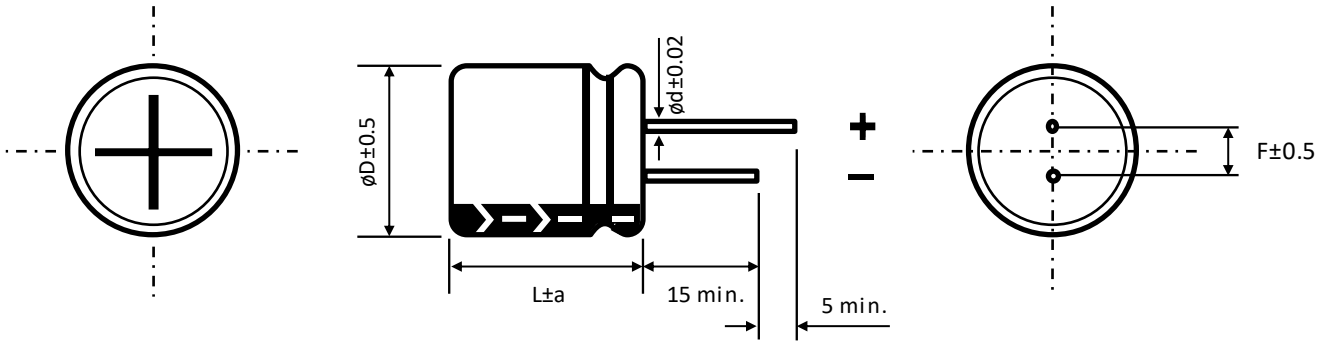
STANDARD RATINGS

Part number shows bulk version with straight leads

V_R (V)	C_R (µF)	ø D (mm)	L (mm)	I_R ▪ Max. Ripple Current +85°C ▪ 120Hz (mA rms)	CapXon Part Number
6.3	22	4	7	34	SR220M6R3B070A
	33	4	7	40	SR330M6R3B070A
	47	4	7	47	SR470M6R3B070A
	100	5	7	76	SR101M6R3C070A
	220	6.3	7	124	SR221M6R3E070A
10	22	4	7	35	SR220M010B070A
	33	4	7	45	SR330M010B070A
	47	5	7	59	SR470M010C070A
	100	6.3	7	88	SR101M010E070A
16	10	4	7	28	SR100M016B070A
	22	4	7	39	SR220M016B070A
	33	5	7	55	SR330M016C070A
	47	5	7	65	SR470M016C070A
	100	6.3	7	98	SR101M016E070A
25	10	4	7	29	SR100M025B070A
	22	5	7	49	SR220M025C070A
	33	5	7	55	SR330M025C070A
	47	6.3	7	71	SR470M025E070A
35	4.7	4	7	23	SR4R7M035B070A
	10	4	7	31	SR100M035B070A
	22	5	7	49	SR220M035C070A
	33	6.3	7	65	SR330M035E070A
50	0.1	4	7	1.1	SR0R1M050B070A
	0.22	4	7	2.6	SRR22M050B070A
	0.33	4	7	3.5	SRR33M050B070A
	0.47	4	7	5	SRR47M050B070A
	1	4	7	10	SR010M050B070A
	2.2	4	7	18	SR2R2M050B070A
	3.3	4	7	23	SR3R3M050B070A
	4.7	4	7	26	SR4R7M050B070A
	10	5	7	35	SR100M050C070A
	22	6.3	7	58	SR220M050E070A

See "PACKAGING INFORMATION" to taped or formed products.

DIMENSIONS ▪ All dimensions in mm



ø D	4	5	6.3
F	1.5	2	2.5
ø d	0.45	0.45	0.5
a	1	1	1

PRECAUTIONS, GUIDELINES AND PACKAGING INFORMATON

Unless otherwise agreed in individual specifications, all products are subject to our “General Precautions and Guidelines” as well as our “Packaging Information”. Please refer to the following links in the table.

General Precautions & Guidelines	Packaging Information	3D Models