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Aluminum electrolytic capacitors for audio applications

Features of the SILMIC series

The structural material for aluminum electrolytic capacitors and their impacts on sound quality are summarized in Table 1. A skillful material combination is essential in providing superior sound performance.

Table 1

	Structural Material	Material Characteristics	Effect on Capacitor Characteristics	Effect on Acoustics
Basic Material	Electrode foil, forming, etching	Heat resistance	ESR	Generally, the sound quality improves at lower multiplier values.
	Electrolyte	Conductivity, viscosity	ESR tanδ	Reduces the sense of distortion in the sound and increases the sense of clearness.
	Electrolytic paper	Density Thickness	ESR, tanδ Manila: good Craft: poor	<p>Manila Improvements in reverb, which requires a large amount of information.</p> <p>Craft Reduces reverb, which improves the attack.</p> <p>Ceramic content Improves the sound field, the clarity, and the sharpness.</p> <p>Silk fiber content Improves the midrange responsiveness and low range richness there in</p>
	Lead lines	Distortion	ESR	<p>CP Lines Rough but strong</p> <p>OFC Lines Sweet high region</p>
	Case materials sleeve	Characteristic vibrations	Vibration characteristics	Stabilization through Frost processing and through vibration-absorbing alloys, etc.; improved sensitivity, changes to sound quality through the sleeve materials and the dye that is included.
			Vibration	<p>EPT The sense of rhythm comes</p>

	Seal rubber	Characteristic vibrations	characteristics Life expectancy	through powerfully. IIR Goes deep, with stable orientation
Manufacturing Method	Number of windings	L component	Induced voltage	Generate the sound through partitioned coils, etc. to improve resolution.

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