

NEW

低抵抗タイプ[°]樹脂電極品 : CNAシリーズ

Low Resistance Soft Termination MLCC: CNA series

高信頼性と低抵抗を両立

High reliability and Low resistance

Features

- TDK独自の電極構造で低抵抗を実現
Low electric resistance by TDK original terminal structure
- たわみ対策に特化した電極デザイン
Specialized terminal design for bending stress

Applications

- バッテリーライン用安全設計
Fail-safe design in battery line

Characteristics

- 端子構造 Terminal structure

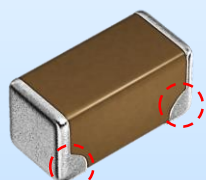
Standard type



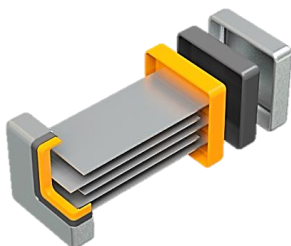
Conventional/Soft termination



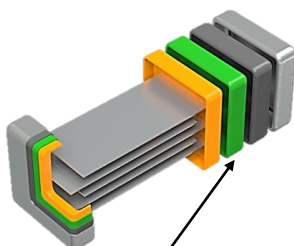
New product/CNA series



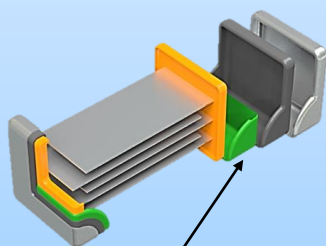
実装面側の端子電極が幅広い
Wider end terminations on board mounted side



3 layer structure by Cu/Ni/Sn



4 layer structure by Cu/Conductive resin/Ni/Sn



4 layer structure by Cu/Conductive resin/Ni/Sn

Cu Ni Sn Conductive resin

実装面側のみに樹脂層を塗布
Resin layer coverage is only applied to board mounted side



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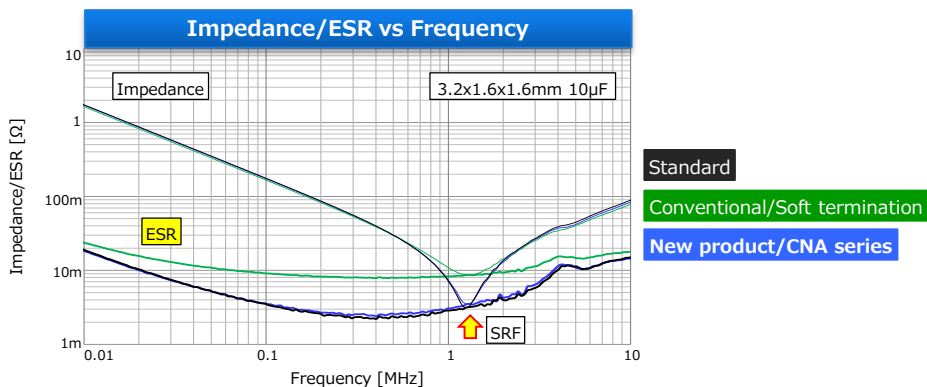
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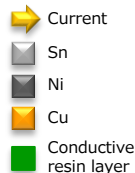
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Characteristics

- 端子構造とインピーダンス/ESR Terminal structure and Impedance/ESR



Standard		Conventional/Soft term		New product/CNA series	
ESR	Heat value	ESR	Heat value	ESR	Heat value
Termination consists of 3 layers by Cu, Ni and Sn		電流は高抵抗である樹脂層を必ず通る Current must pass through the higher resistance path		高抵抗である樹脂層を 通らずに電流が通過できる Current can pass outside the higher resistance path	
Standard		Conventional/Soft term		New product/CNA series	



Approx. 60% reduction

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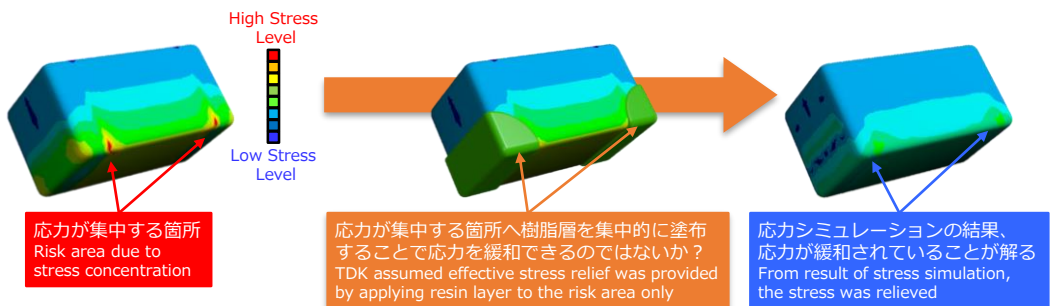
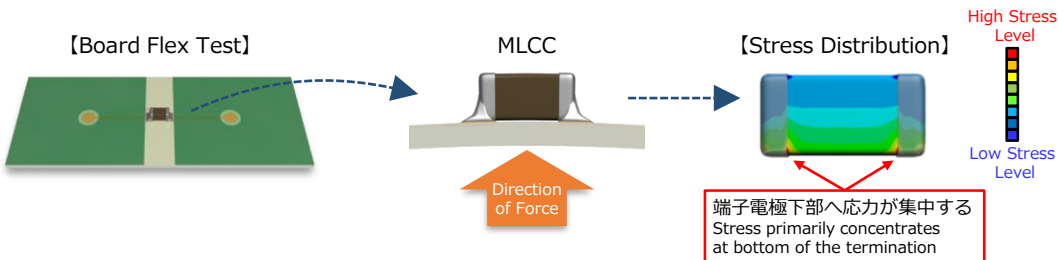
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- 基板たわみによるMLCCへの応力
Mechanical stress to MLCC by board flex



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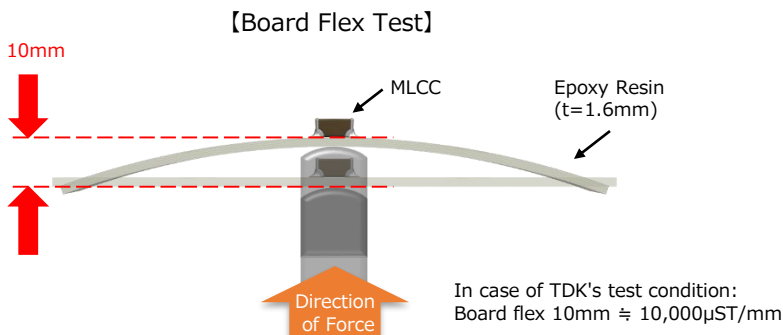
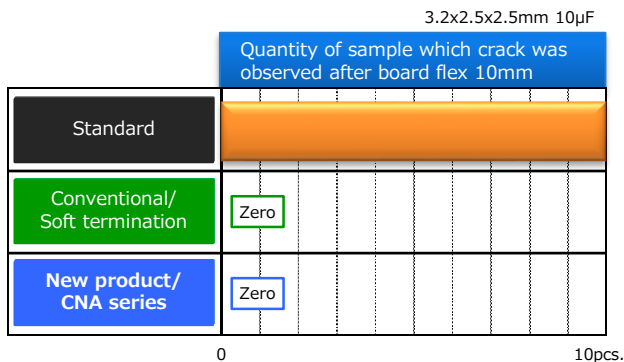
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- 基板たわみ耐性 Board flex resistance



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- ラインナップ Lineup

X7R: -55~125°C/±15%

Size	Rated voltage	Capacitance [F]			
		2.2μ	4.7μ	10μ	22μ
3225 (1210")	100V		X7R		
	50V		X7R	X7R	
	25V				X7R
3216 (1206")	75V	X7R			
	50V	X7R	X7R		
	25V			X7R	
	16V			X7R	

■ Mass production

■ Under development