

Click Series name in the diagram above for details.

Automotive Grade		Wire Wound	Multilayer	Thin-film	
Category See here for information on various features.	Ferrite : No Shield	Ferrite : Resin Shield	Ferrite : Shield	Metal : Resin Shield	Metal : Shield
High Current	Small Size	NLCV-xxxD 105°C 125°C 0.1 to 330µH 25: 2.5x2.0mm 32: 3.2x2.5mm		MLD 125°C Low Profile 0.47 to 4.7µH 2012: 2.0x1.2mm 2016: 2.0x1.6mm	TFM-ALMA 150°C High Current Low Profile 0.10 to 10µH 2016xx: 2.0x1.6mm 2520xx: 2.5x2.0mm 3225xx: 3.2x2.5mm
		B82422H 150°C High Current 1 to 680µH 3.2x2.5 mm		LTF-D 150°C Low Profile 1.2 to 56µH 30xx: 4.5x3.0mm 40xx: 5.5x4.0mm 50xx: 6.5x5.0mm	TFM-ALVA NEW 150°C High Current Step-up Converter 1 to 10µH 2520xx: 2.5x2.0mm 3225xx: 3.2x2.5mm
		B82432T 150°C High Current 1 to 1,000µH 4.5x3.2 mm			
	Middle Size	B82442T 150°C Wide Inductance 1 to 10,000µH 5.6x5.0mm	VLS-EX-H NEW 125°C Wide Inductance 1 to 220µH 50xx: 5.0x5.3mm 60xx: 6.0x6.0mm	SLF-H 125°C Wide Inductance 3.3 to 470µH 70xx: 7.0x7.0mm	SPM-HZ 125°C High Current 0.33 to 22µH 40xx: 4.1x4.0mm 50xx: 5.2x5.0mm 65xx: 7.1x6.5mm
				CLF-NI-D 150°C Wide Inductance 1 to 470µH 50xx: 5.3x5.0mm 60xx: 6.3x6.0mm 70xx: 7.4x7.0mm	SPM-VT-D 155°C High Current 0.15 to 100µH 65xx: 7.0x6.5mm 70xx: 7.5x7.0mm
				HPL NEW 155°C High Current 0.08 to 0.33µH 5050xx: 5.0x5.0mm 7580xx: 7.5x8.0mm	
	Large Size			SLF-H 125°C Wide Inductance 1.2 to 1500µH 101xx: 10.1x10.1mm 125xx: 12.5x12.5mm	SPM-HZ 125°C High Current 0.47 to 68µH 100xx: 10.7x10.0mm
				CLF-NI-D 150°C Wide Inductance 1 to 470µH 100xx: 10.1x10.0mm 125xx: 12.8x12.5mm	SPM-VT-D NEW 155°C High Current 1 to 47µH 100xx: 10.5x10.0mm 125xx: 13.0x12.5mm
	Large Size Dual Coil			B82477D 150°C Dual Coil 2 to 100µH 12.5x12.5mm	
	Very Large Size			B82559A 150°C Super High Current 1.0 to 35µH B82559AxA016: 17.3x18.7mm B82559AxA019: 19.9x20.5mm B82559AxA020: 22.3x22.0mm	

Features

Process	Wire Wound	These products have a structure consisting of a core with copper wires wound around it. The use of thick copper wires can reduce the DC resistance, making them suitable for applications with large currents. Composite-type products (SPM series), whose wire wound coils are integrally molded using magnetic metal powder, are also available, and are effective in countermeasures against coil acoustic noise.
	Multi Layer	Metal conductors are printed on sheets which are then laminated to create coils. These products are well-suited to achieving smaller product sizes and lower profiles, with excellent mass-productibility.
	Thin Film	Thin film processing is employed to make high-density pattern forming possible. Combinations with metallic magnetic materials make these products suitable for applications requiring small sizes and low profiles, as well as large currents.
Magnetic Material	Ferrite	These products have high μ and are suitable for high-inductance applications. They also possess consistent DC superimposition characteristics, demonstrating stable properties up to the magnetic saturation point.
	Metal	Since these products have small changes in inductance depending on temperature, and are less likely to experience magnetic saturation than ferrite, they possess soft saturation characteristics.
Shield Type	No Shield	A simple, open magnetic circuit type with no magnetic shielding on the coil components.
	Resin Shield	The areas around the coil are covered with resin which contains a mixture of magnetic powder such as ferrite and soft magnetic metals. Compared to shielded types, the magnetic shielding effectiveness of these products is limited, but they have good cost balance.
	Shield	Covering the areas around the coil with a shield core and molding with magnetic materials gives these products a structure similar to a closed magnetic circuit. This type has high magnetic shielding effectiveness with lower magnetic flux leakage than all other types.