Coilmaster Electronics Co., Ltd.
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E-mail :info@coilmaster.com.tw
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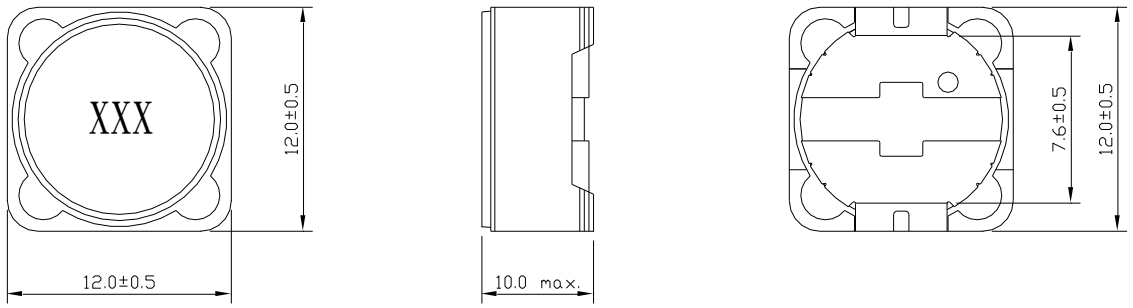
Shielded High Current Inductors - SDS129 SERIES

PART NUMBERING SYSTEM **(AEC-Q200)**

SDS	129	–	680M	–	L F
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

UNIT : mm



Description:

Engineers often face challenges with efficiency loss in compact DC-DC converters.
This 12×12mm shielded power inductor addresses that by offering low DCR and high saturation current, making it suitable for automotive and industrial-grade designs where space and reliability are critical.

Features:

Compact 12×12×10mm shielded SMD package, ideal for space-constrained designs
Low DCR for reduced copper loss and higher efficiency
High saturation currents up to 25.0A, ensuring stability under transient loads
Excellent thermal performance for reliable operation at high ambient temperatures
AEC-Q200 qualified option available for automotive applications

Applications:

DC-DC converters in automotive electronics (ECU, ADAS, infotainment systems)
Voltage regulation in industrial automation controllers
Power supply filtering for LED drivers and lighting modules
Energy storage and noise suppression in telecom and networking equipment
Consumer electronics: laptops, gaming devices, and VR/AR headsets

Our specification limits the quality of the component to a single unit.
Please ensure the component is thoroughly evaluated in your application circuit

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RoHS COMPLIANT REACH Halogen Free

SPECIFICATION TABLE **(AEC-Q200)**

PART NUMBER	INDUCTANCE (μH)	DCR (Ω) (Max.)	Isat(A) (Max.)	Irms(A) (Max.)	TEST FREQ. (freq.)
SDS129-1R0N-LF	1.0	5.6m	25.0	13.0	1KHz/0.25V
SDS129-2R2N-LF	2.2	6.0m	20.0	11.5	1KHz/0.25V
SDS129-3R5N-LF	3.5	8.5m	16.5	11.0	1KHz/0.25V
SDS129-4R7N-LF	4.7	0.011	13.0	9.30	1KHz/0.25V
SDS129-6R8N-LF	6.8	0.014	12.8	8.40	1KHz/0.25V
SDS129-100M-LF	10	0.021	10.5	7.10	1KHz/0.25V
SDS129-150M-LF	15	0.026	8.00	6.50	1KHz/0.25V
SDS129-220M-LF	22	0.028	6.50	5.30	1KHz/0.25V
SDS129-330M-LF	33	0.045	5.50	4.20	1KHz/0.25V
SDS129-470M-LF	47	0.060	4.50	3.80	1KHz/0.25V
SDS129-680M-LF	68	0.089	3.60	3.20	1KHz/0.25V
SDS129-101M-LF	100	0.110	3.10	2.50	1KHz/0.25V
SDS129-151M-LF	150	0.200	2.70	2.10	1KHz/0.25V
SDS129-221M-LF	220	0.300	2.20	1.80	1KHz/0.25V
SDS129-331M-LF	330	0.430	1.70	1.50	1KHz/0.25V
SDS129-471M-LF	470	0.560	1.50	1.40	1KHz/0.25V

- DC current at which the inductance drops 25% (typ) from its value without current.
- Operating temperature range -40℃ to +125℃.
- Electrical specifications at 25℃ .
- **PLATING / SOLDER : TIN-SILVER-COPPER (95.5%/4.0%/0.5%)**

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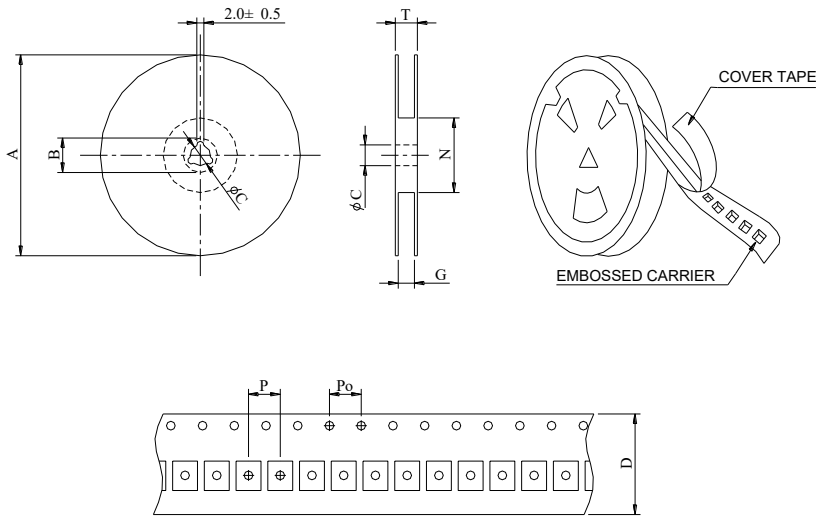
PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G^{+0}	N^{-0}	P	Po	T
SDS129	13-24	250	330	21	13	24	26	50	20	4	30.4

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Revised January 2026