

# Power Inductors Shielded-SMT Square 7 x 7 mm

POWER INDUCTORS

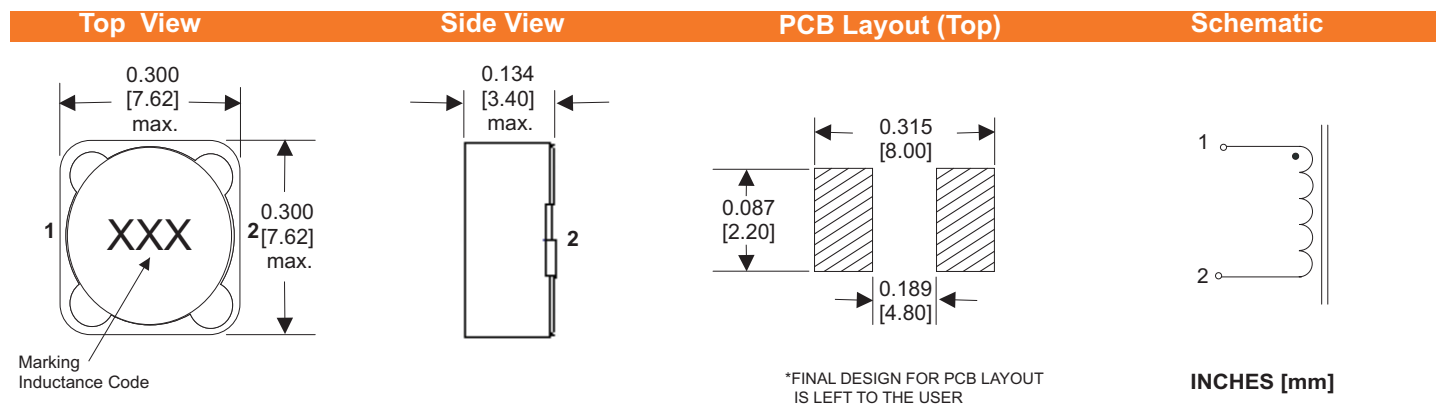
(SDQIE0503 Series)



**MAX. DIM :**  
 L = 7.62 mm  
 W = 7.62 mm  
 H = 3.40 mm

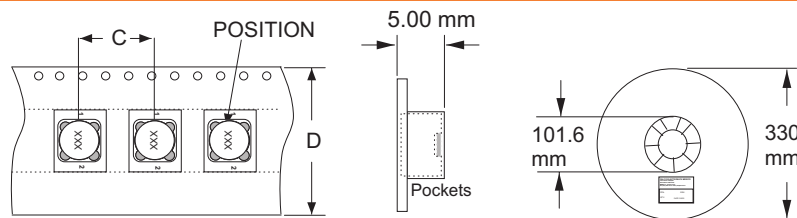
- Used in high frequency DC/Dc converters, computers and other electronics applications.
- Magnetically shielded for low EMI radiation.
- Electrode connected to core ferrite.
- Low DC resistance.
- Inductance range from 0.68  $\mu$ H to 56  $\mu$ H.
- Energy storage limit of 15  $\mu$ J.
- Tape & Reel : 1000 pcs/Reel, 8 Reels/Box.

## MECHANICAL SPECIFICATIONS



## Packaging Information

## Tape & Reel



Carrier tape thickness 0.40 mm

ITEM	DESCRIPTION	QTY.
A	QTY. PER REEL	1000
B	QTY. PER BOX	8000
C	PITCH	12 mm
D	TAPE WIDTH	16 mm

See tape and reel information 83-003

## ELECTRICAL SPECIFICATIONS

FALCO PART NUMBER	RoHS PART NUMBER	OCL( $\mu$ H) <sup>1</sup> $\pm 20\%$	DCR ( $\Omega$ max)	I rating <sup>2</sup> (Amp)	I sat <sup>3</sup> (Amp)	Inductance Code	
						Standard	RoHS
SD0513		0.680 $\pm 30\%$	0.0079	5.50	*5.9	R68	
SD0501	SDL501	1.0	0.0113	5.00	5.20	1R0	1R0L
SD0512	SDL512	2.2	0.0228	4.58	*5.52	2R2	2R2L
SD0502		10	0.0916	1.65	1.82	100	
SD0503	SDL503	12	0.1119	1.50	1.57	120	120L
SD0504		15	0.1485	1.31	1.36	150	
SD0505		18	0.1598	1.18	1.22	180	
	SD0506	22	0.2169	1.12	1.12	220	220L
SD0507		27	0.2398	0.98	1.02	270	
	SD0508	33	0.2740	0.89	0.86	330	330L
SD0509		39	0.3653	0.75	0.83	390	
SD0510		47	0.4110	0.74	0.81	470	
SD0511		56	0.5365	0.65	0.79	560	



RoHS COMPLIANT PRODUCT

1. Inductance tested at 100 KHz 0.25 V.
2. Temperature rise is 40°C Typ.
3. Inductance drop 20% Typ. at Isat, \* 30% Typ at Isat.
4. Operating Temp. range -40°C to +85°C.
5. OCL and DCR tested at Ta= 25°C.

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## Inductance & Energy vs Current (SDQIE0503 Series)

