

Power Inductor Shielded-SMT Square 12 x 12 mm

POWER INDUCTORS

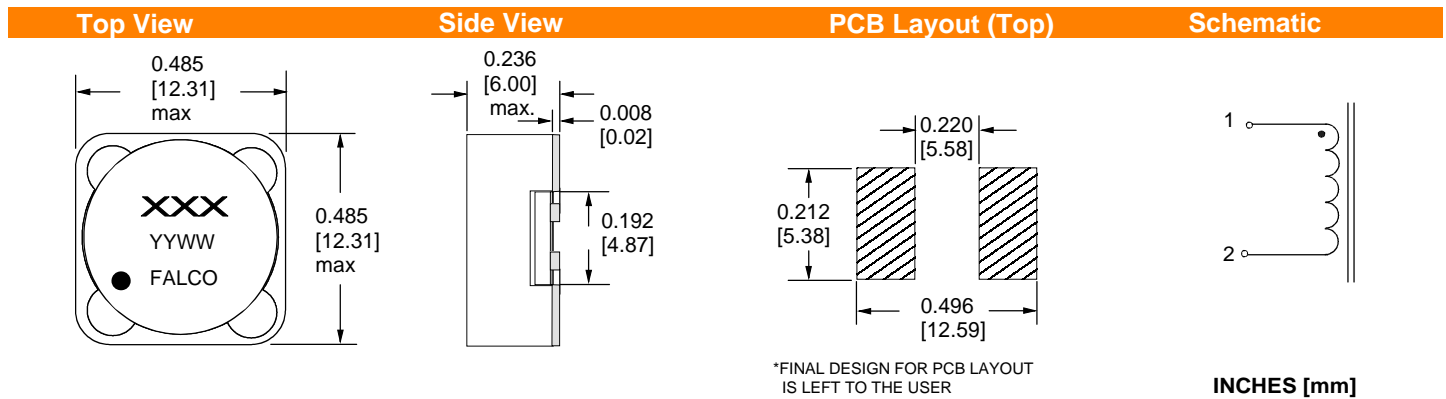
(SDQIE1005 Series)



MAX. DIM :
L = 12.31 mm
W = 12.31 mm
H = 6.00 mm

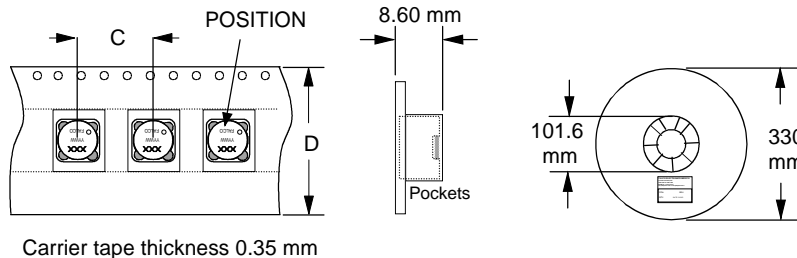
- Used in high frequency DC/DC converters.
- Magnetically shielded for low EMI radiation.
- Medium current capacity.
- Low DC resistance.
- Inductance range from 470 nH to 1.0 mH.
- Energy storage limit of 150 μ J.
- Tape & Reel : 450 pcs/Reel, 5 Reels/Box.

MECHANICAL SPECIFICATIONS



Packaging Information

Tape & Reel



ITEM	DESCRIPTION	QTY.
A	QTY. PER REEL	450
B	QTY. PER BOX	2250
C	PITCH	16 mm
D	TAPE WIDTH	24 mm

See tape and reel information 63-002

ELECTRICAL SPECIFICATIONS

FALCO PART NUMBER	RoHS PART NUMBER	OCL(μ H) ¹ $\pm 20\%$	DCR (W max)	I rating ² (Amp)	I sat ³ min (Amp)
SD1012		*0.47	0.0030	18.9	20.5
SD1005		*0.75	0.0042	16.0	16.4
SD1013	SDL013	1.5	0.0066	11.0	12.6
SD1004		2.2	0.0078	10.2	12.0
SD1009	SDL009	3.3	0.0088	9.00	10.0
SD1003		4.7	0.0106	8.30	9.00
SD1011	SDL011	5.2	0.0126	7.80	8.00
	SD10L1	6.8	0.0230	7.20	6.80
SD1001	SDL001	10	0.0233	5.20	5.40
SD1014		12	0.0258	5.10	5.10
SD1002	SDL002	15	0.0354	4.10	4.30
SD1010		18	0.0396	3.20	3.50
SD1015	SDL015	22	0.0456	3.10	3.30
SD1006	SDL006	27	0.0588	2.90	3.10
SD1016	SDL016	33	0.0660	2.80	3.00
SD1017		39	0.0720	2.60	2.70

Continue on next page...

Continuation...

ELECTRICAL SPECIFICATIONS

FALCO PART NUMBER	RoHS PART NUMBER	OCL(μ H) ¹ $\pm 20\%$	DCR (W max)	I rating ² (Amp)	I sat ³ min (Amp)
SD1008		47	0.1000	2.50	2.60
SD1018		56	0.1280	2.20	2.30
SD1007	SDL007	68	0.1490	1.95	2.10
SD1019		82	0.1620	1.90	2.00
SD1020		100	0.1740	1.75	1.80
SD1021		120	0.2460	1.50	1.60
SD1022		150	0.2740	1.45	1.50
SD1023		180	0.3600	1.20	1.20
SD1024		220	0.4080	1.10	1.10
SD1025		270	0.4730	0.95	1.05
SD1026		330	0.6230	0.90	1.00
SD1027		390	0.8460	0.82	0.85
SD1028		470	0.9500	0.77	0.77
SD1029		560	1.0400	0.70	0.71
SD1030		680	1.4400	0.64	0.67
SD1031		820	1.5600	0.60	0.60
SD1032		1000	1.8000	0.55	0.56

* TOLERANCE +40% / -20%



RoHS COMPLIANT PRODUCT

1. Inductance tested at 100 KHz 0.25 V (range 0.47 μ H to 10 μ H)
 inductance tested at 10 KHz 0.25 V (range 12 μ H to 1.0 mH)
2. Temperature rise is 40°C at rated current.
3. Inductance drop 10% typ at Isat.
4. Operating Temp. range -40°C to +85°C.
5. OCL and DCR tested at Ta= 25°C.

Power Inductor Shielded-SMT Square 12 x 12 mm

Inductance & Energy vs Current

(SDQIE1005 Series)

