

SDO Series

Features

RoHS, Halogen Free and REACH Compliance
Magnetic shielded
Good energy storage and low resistance
Various high power inductors are superior to be high saturation for surface mounting.

Applications

Flash memory programmers
Electric motors
Power supply for VTR, OA equipment
LCD television set, notebook PC
Portable communication, equipment
DC/DC converters, etc.

Product Identification

SDO XXXX RTL - XXXX
For example:SDO1206RTL-151M

General Specifications

Test Frequency..... 100KHz
Test Voltage.....0.1V
Parameters Test Temp..... 20℃
Operation Temp.....-40℃ to +125℃
(Including temperature Rise)
Storage Temp.....0~-40℃
Storage Humidity.....70% RH
Resistance to Soldering Heat.....260℃ for 10 sec
Rated Current.....Ind. drops of 10%typ at Isat
Temperature Rise.....40℃typ. at Irms

Shape And Dimensions

Fig.1

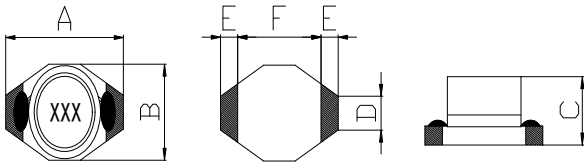


Fig.2

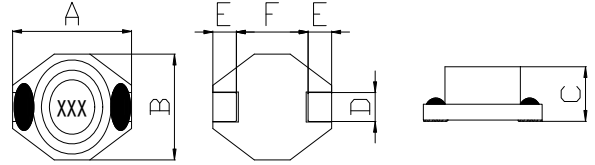
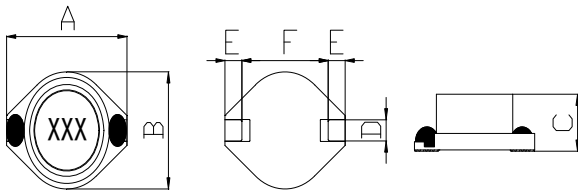


Fig.3



Electrical Schematic & PAD Layout



Dimensions In mm

TYPE	A	B	C	D	E	F	H	I	J	Shape
	Max	Max	Max	Ref	Ref	Ref	Ref	Ref	Ref	
0403	6.60	4.45	2.92	1.27	1.02	4.32	3.56	1.40	4.06	Fig.1
0804	13.21	9.40	5.08	2.54	2.54	7.62	2.79	2.92	7.37	Fig.2
1206	18.54	15.24	7.62	2.54	2.54	12.7	2.79	2.92	12.45	Fig.3

Standard Specifications

Stamp	Inductance (uH)	SDO0403R			SDO0804R				SDO1206R			
		DCR (Ω) Max	I _{rms} (A)	SRF (MHZ) Typ	DCR (Ω) Max	I _{sat} (A)	I _{rms} (A)	SRF (MHZ) Typ	DCR (Ω) Max	I _{sat} (A)	I _{rms} (A)	SRF (MHZ) Typ
1R0	1.0	0.040	3.00	200	0.021	5.60	5.00	110				
1R5	1.5	0.045	2.80	100	0.022	5.20	4.50	90				
2R2	2.2	0.050	1.80	90	0.032	5.00	3.80	60				
3R3	3.3	0.060	1.60	90	0.039	3.90	3.30	55				
4R7	4.7	0.065	1.40	80	0.054	3.20	2.70	30				
6R8	6.8	0.070	1.20	40	0.075	2.80	2.20	30				
100	10.0	0.075	1.00	30	0.101	2.40	2.00	28	0.040	8.00	5.00	24
150	15.0	0.090	0.80	25	0.150	2.00	1.50	20	0.048	7.00	4.00	16
220	22.0	0.110	0.70	20	0.207	1.60	1.30	15	0.059	6.00	3.80	14
330	33.0	0.190	0.60	15	0.334	1.40	1.20	12	0.075	5.00	3.20	11
470	47.0	0.230	0.50	15	0.472	1.00	0.96	10	0.097	4.00	2.80	8.0
680	68.0	0.290	0.40	10	0.660	0.90	0.77	8.0	0.138	3.00	2.20	7.0
101	100.0	0.480	0.30	8.0	0.924	0.80	0.61	6.0	0.207	2.40	1.80	5.5
151	150.0	0.590	0.26	7.0	1.290	0.70	0.49	5.0	0.293	2.10	1.50	4.8
221	220.0	0.770	0.22	4.0	2.200	0.50	0.39	4.0	0.470	1.90	1.20	4.0
331	330.0	1.400	0.20	3.5	2.500	0.38	0.31	3.0	0.780	1.10	0.90	3.0
471	470.0	1.800	0.19	3.0	3.700	0.35	0.28	2.5	1.080	1.02	0.80	2.4
681	680.0	2.200	0.18	2.0	6.400	0.30	0.22	2.0	1.400	0.96	0.65	2.0
102	1000.0	3.400	0.15	1.0	9.600	0.25	0.20	1.0	2.010	0.80	0.54	1.0

Note: When ordering, please specify tolerance code. Tolerance: L=±15%, M=±20%, P=±25%, N=±30%

*All the data listed in this catalogue are for reference only, JENG SHI reserves the right to alter or revise the specifications without prior notification.

*Beyond the above specification also can meet the special requirements. Need detailed content Please to the website query or contact us.