



Features (特长)

- Magnetically shielded construction (闭磁路构造设计)
- Compact and thin (轻便薄小)
- Large Current and Low DCR (大电流低直流阻抗)

Applications (用途)

- DC-DC converter of portable equipment. (携带机器之直流转换器)
- Camcorder, LCD television set, Digital camera, P.D.A., Notebook. (摄影机、液晶电视、数位相机、P.D.A.、笔记型计算机)
- Small size communication equipment. (小型通信机器)

Product Identification (产品识别)

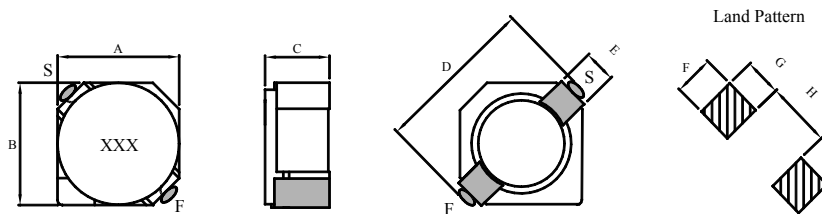
SDH3D12A — _____ (Ex. SDH3D12A-1R2N)

1 2 3

1. SMT Shielded Power Inductors (闭磁式功率电感) (SDH3D12A, SDH3D16A, SDH3D16, SDH3D28)
2. Inductance (电感值)
3. Tolerance (误差值) (参照表 K:10%, L:15%, M:20%, N:30%)

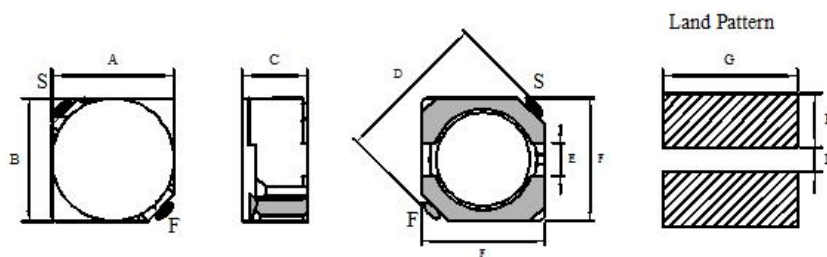
Configurations & Dimensions

(结构图及规格尺寸)



Unit In: mm

Type	A (max)	B (max)	C (max)	D (max)	E (max)	F	G	H
SDH3D12A	4.0	4.0	1.4	4.4	1.1	1.5	1.4	2.4
SDH3D16A	4.0	4.0	1.8	4.4	1.1	1.5	1.4	2.4



Unit In: mm

Type	A (max)	B (max)	C (max)	D (max)	E	F	G	H	I
SDH3D16	4.0	4.0	1.8	5.5	1.0	4.0	4.0	1.5	1.0
SDH3D28	4.0	4.0	3.0	5.5	1.0	4.0	4.0	1.5	1.0

♣Design as Customer' s Requested Specifications. (可依客户特殊需求设计)

Codes	L (μ H)	Tolerance	Test Freq. (KHz)	DCR (Ω) max				Isat (A)			
				3D12A	3D16A	3D16	3D28	3D12A	3D16A	3D16	3D28
1R0	1.0	N	100	0.087	0.045	0.045	-	1.20	1.47	1.47	-
1R5	1.5	N	100	0.124	0.052	0.052	-	1.10	1.45	1.45	-
1R8	1.8	N	100	0.142	-	-	-	1.04	-	-	-
2R2	2.2	N	100	-	0.072	0.072	-	-	1.20	1.20	-
2R7	2.7	N	100	-	0.075	0.075	-	-	1.18	1.18	-
3R3	3.3	N	100	0.239	0.085	0.085	0.073	0.800	1.10	1.10	2.00
3R9	3.9	N	100	-	0.095	0.095	-	-	1.00	1.00	-
4R7	4.7	N	100	0.338	0.105	0.105	0.089	0.730	0.900	0.900	1.65
5R6	5.6	N	100	-	0.119	0.119	-	-	0.822	0.822	-
6R8	6.8	N	100	0.406	0.170	0.170	0.120	0.640	0.730	0.730	1.24
8R2	8.2	N	100	-	0.190	0.190	-	-	0.621	0.621	-
100	10	M	100	0.622	0.210	0.210	0.145	0.495	0.550	0.550	1.05
120	12	M	100	-	0.247	0.247	-	-	0.500	0.500	-
150	15	M	100	0.977	0.295	0.295	0.213	0.425	0.450	0.450	0.90
180	18	M	100	-	0.416	0.416	-	-	0.410	0.410	-
220	22	M	100	1.16	0.430	0.430	0.335	0.380	0.400	0.400	0.76
270	27	M	100	-	0.546	0.546	-	-	0.370	0.370	-
330	33	M	100	1.90	0.675	0.675	0.481	0.315	0.320	0.320	0.58
390	39	M	100	-	0.871	0.871	-	-	0.278	0.278	-
470	47	M	100	2.30	0.962	0.962	0.600	0.260	0.260	0.260	0.48
560	56	M	100	-	1.09	1.09	-	-	0.242	0.242	-
680	68	M	100	-	1.25	1.25	-	-	0.219	0.219	-
820	82	M	100	-	1.50	1.50	-	-	0.200	0.200	-
101	100	M	100	-	1.68	1.68	-	-	0.187	0.187	-
121	120	M	100	-	2.15	2.15	-	-	0.178	0.178	-
151	150	M	100	-	2.60	2.60	-	-	0.150	0.150	-
181	180	M	100	-	2.86	2.86	-	-	0.138	0.138	-
221	220	M	100	-	4.55	4.55	-	-	0.122	0.122	-
271	270	M	100	-	5.07	5.07	-	-	0.105	0.105	-
331	330	M	100	-	5.89	5.89	-	-	0.098	0.098	-
391	390	M	100	-	6.50	6.50	-	-	0.096	0.096	-
471	470	M	100	-	7.15	7.15	-	-	0.081	0.081	-
561	560	M	100	-	9.75	9.75	-	-	0.070	0.070	-
681	680	M	100	-	12.74	12.74	-	-	0.069	0.069	-

※Test Freq. : 100KHz / 0.25V.

※Operating Temp. : $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$

※Inductance drop = 35% typ. at Isat.

※ $\Delta T=40^{\circ}\text{C}$ rise at Irms.