



## SDH3316 SERIES ~ SMD Power Inductors



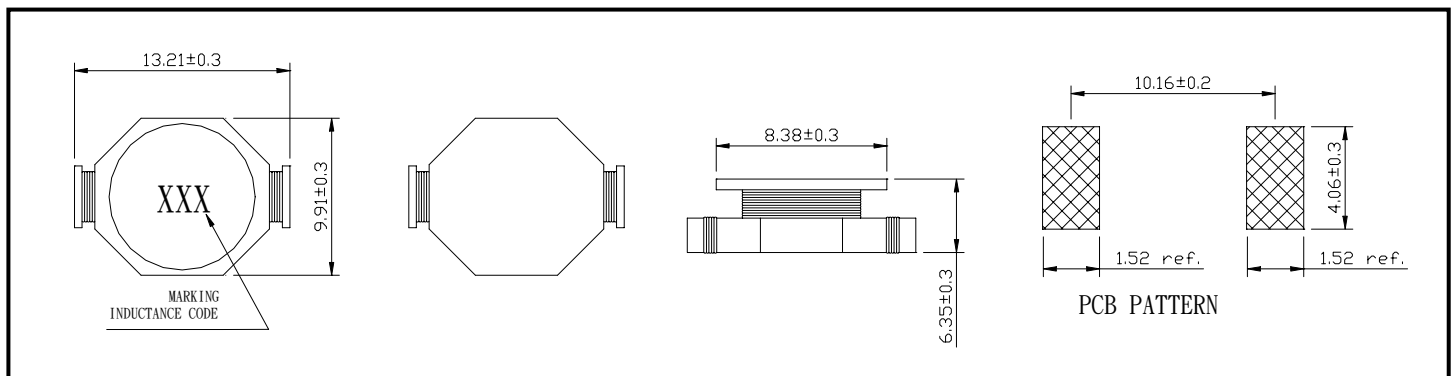
RoHS Compliant

### PART NUMBERING SYSTEM

<b>SDH</b>	<b>3 3 1 6</b>	—	<b>R 6 8 M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

UNIT : mm



### FEATURES

- Very high current ratings - **up to 22 Arms, 28 Asat**
- Low profile and small footprint - **only 0.51" x 0.37" x 0.25" high**
- Designed for **high ambient temperatures** - up to **155°C**
- Very high current ratings - **up to 16 Arms, 20 A saturating current**
- **Exceptionally low DC resistance** thanks to the use of heavier gauge wire
- **RoHS-compliant.** 260°C compatible. Tin-silver over copper terminations
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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR( $\Omega$ ) (Max.)	Isat ( A ) (Max.)	Irms ( A ) (Max.)	SRF(MHz) (Ref.)
SDH3316-R12M-LF	0.12 $\pm$ 20%	0.0015	28.0	22.0	300
SDH3316-R33M-LF	0.33 $\pm$ 20%	0.002	20.0	16.0	200
SDH3316-R68M-LF	0.68 $\pm$ 20%	0.005	13.0	12.0	200
SDH3316-1R0M-LF	1.0 $\pm$ 20%	0.006	11.0	10.0	100
SDH3316-1R5M-LF	1.5 $\pm$ 20%	0.008	9.00	9.00	90
SDH3316-2R2M-LF	2.2 $\pm$ 20%	0.011	7.80	7.40	90
SDH3316-2R7M-LF	2.7 $\pm$ 20%	0.012	7.00	6.60	65
SDH3316-3R3M-LF	3.3 $\pm$ 20%	0.014	6.40	5.90	60
SDH3316-3R9M-LF	3.9 $\pm$ 20%	0.015	5.90	5.30	50
SDH3316-4R7M-LF	4.7 $\pm$ 20%	0.018	5.40	4.80	50
SDH3316-5R6M-LF	5.6 $\pm$ 20%	0.021	4.70	4.65	45
SDH3316-6R8M-LF	6.8 $\pm$ 20%	0.024	4.40	4.40	43
SDH3316-8R2M-LF	8.2 $\pm$ 20%	0.032	4.00	4.15	34
SDH3316-100M-LF	10 $\pm$ 20%	0.034	3.90	3.90	31
SDH3316-120M-LF	12 $\pm$ 20%	0.036	3.30	3.50	27
SDH3316-150M-LF	15 $\pm$ 20%	0.045	3.10	3.10	25
SDH3316-180M-LF	18 $\pm$ 20%	0.050	2.80	2.90	22
SDH3316-220M-LF	22 $\pm$ 20%	0.070	2.50	2.70	18
SDH3316-270M-LF	27 $\pm$ 20%	0.085	2.30	2.30	18
SDH3316-330M-LF	33 $\pm$ 20%	0.100	2.00	2.10	17
SDH3316-390M-LF	39 $\pm$ 20%	0.120	1.80	1.95	15
SDH3316-470M-LF	47 $\pm$ 20%	0.150	1.65	1.80	14
SDH3316-560M-LF	56 $\pm$ 20%	0.165	1.45	1.55	12
SDH3316-680M-LF	68 $\pm$ 20%	0.220	1.40	1.50	11
SDH3316-820M-LF	82 $\pm$ 20%	0.250	1.30	1.40	10
SDH3316-101M-LF	100 $\pm$ 20%	0.280	1.20	1.30	9
SDH3316-121M-LF	120 $\pm$ 20%	0.400	1.00	1.00	8
SDH3316-151M-LF	150 $\pm$ 20%	0.460	0.90	0.90	6
SDH3316-181M-LF	180 $\pm$ 20%	0.520	0.85	0.85	6
SDH3316-221M-LF	220 $\pm$ 20%	0.700	0.80	0.80	5
SDH3316-271M-LF	270 $\pm$ 20%	0.800	0.75	0.70	5
SDH3316-331M-LF	330 $\pm$ 20%	1.070	0.60	0.60	4.5
SDH3316-391M-LF	390 $\pm$ 20%	1.140	0.62	0.55	4.0
SDH3316-471M-LF	470 $\pm$ 20%	1.270	0.50	0.50	3.5

- Inductance tested at 100 kHz, 0.1 Vrms
- Isat: DC current at which the inductance drops 10% (typ) from its value without current.
- Irms: Average current for 40°C temperature rise from 25°C ambient.
- Operating temperature range -40°C to +155°C.
- Electrical specifications at 25°C
- Packing : 13" reel, machine-ready ,embossed plastic tape ( 1,000 parts per full reel).

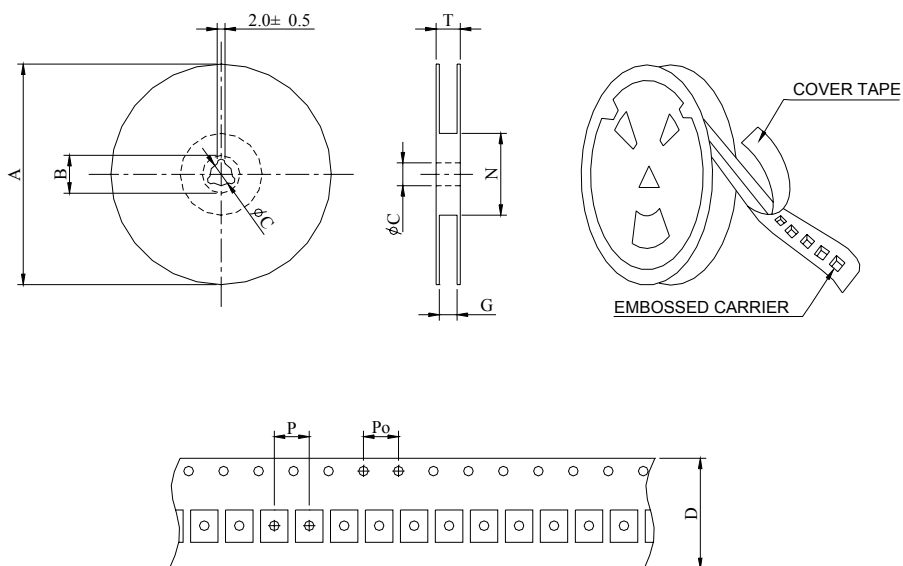


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## PACKAGING SPECIFICATION



SERIES	STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G <sup>+0</sup>	N <sup>0</sup>	P	Po	T
SDH3316	13-24	1,000	330	21	13	24	26	50	16	4	30.4