




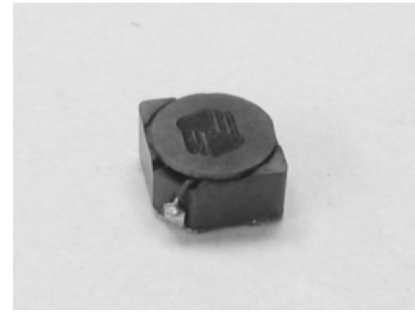


-  Magnetically Shielded
-  Miniature in size and high energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

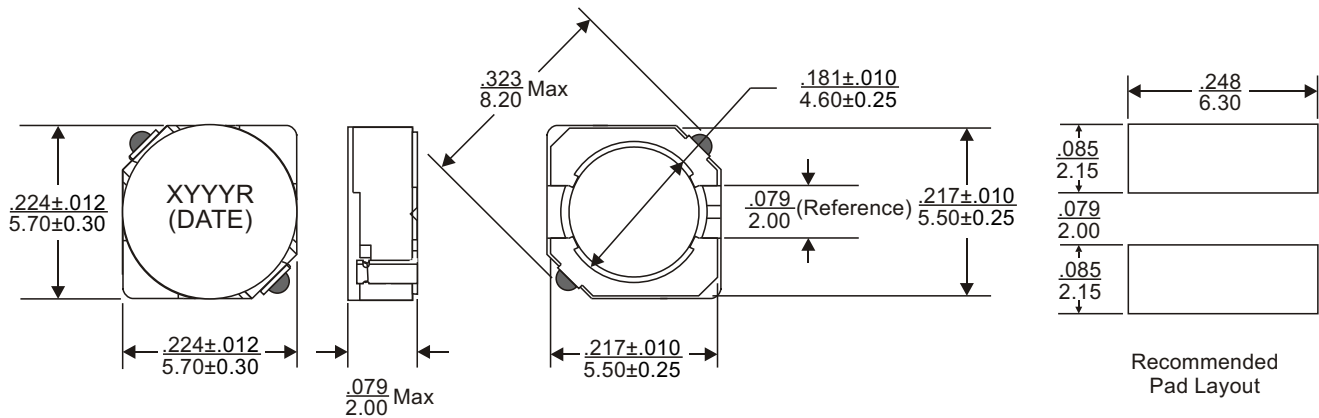
Part Number	Inductance (uH)	Tolerance (%)	Test Frequency ² (kHz)	DCR (m Max)	Rated DC Current ³ (A)	Marking (YYYY)
SIS5D18N-4R1R	4.1	±30	10	57	1.95	N4R1
SIS5D18N-5R4R	5.4	±30	10	76	1.60	N5R4
SIS5D18N-6R2R	6.2	±30	10	96	1.40	N6R2
SIS5D18N-8R9R	8.9	±30	10	116	1.25	N8R9
SIS5D18N-100R	10	±30	10	124	1.20	N100
SIS5D18N-120R	12	±30	10	153	1.10	N120
SIS5D18N-150R	15	±30	10	196	0.97	N150
SIS5D18N-180R	18	±30	10	210	0.85	N180
SIS5D18N-220R	22	±30	10	290	0.80	N220
SIS5D18N-270R	27	±30	10	330	0.75	N270
SIS5D18N-330R	33	±30	10	386	0.65	N330
SIS5D18N-390R	39	±30	10	520	0.57	N390
SIS5D18N-470R	47	±30	10	595	0.54	N470
SIS5D18N-560R	56	±30	10	665	0.50	N560
SIS5D18N-680R	68	±30	10	840	0.43	N680
SIS5D18N-820R	82	±30	10	978	0.41	N820
SIS5D18N-101R	100	±30	10	1200	0.36	N101

Notes:

1. Ordering Information: SIS5D18a - bbbRc.
 SIS5D18 = Product Type.
 a = Tolerance of Inductance (N = ±30%).
 bbb = Inductance value in uH (i.e. 4R1 = 4.1uH; 470 = 47uH; 101 = 100uH).
 R = Internal Control Code.
 c = Packaging Code (U = Tape & Reel Packaging in 7 inch Reel).
2. Test frequency is specified as the frequency for measuring the inductance.
3. Rated D.C. current indicates the value of the current when the inductance is 35% lower than its initial value or the current when temperature rising T=40°C at D.C. Superposition.
4. Operating temperature range: -40°C to +125°C.
5. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.



MECHANICAL DIMENSIONS

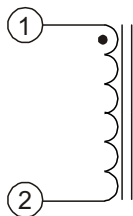


Notes:

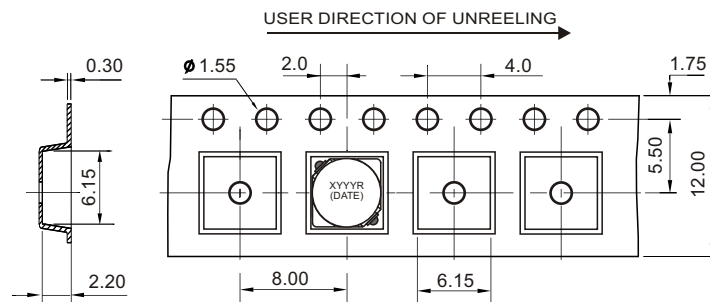
- 6. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 7. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 1.0 typ.
Tape & Reel	: 950 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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