




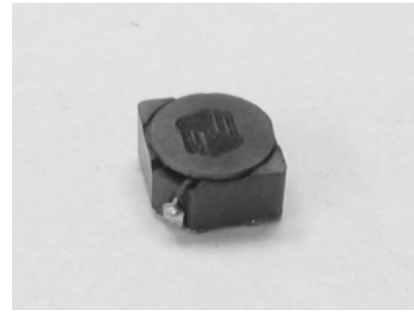


-  Magnetically Shielded
-  Miniature in size and high energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



**ELECTRICAL SPECIFICATION @ 25°C**

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency <sup>2</sup> (kHz)	DCR (m Max)	Rated DC Current <sup>3</sup> (A)	Marking (XYYY)
SIS6D28N-3R0R	3.0	±30	10	24	3.00	N3R0
SIS6D28N-3R9R	3.9	±30	10	27	2.60	N3R9
SIS6D28N-5R0R	5.0	±30	10	31	2.40	N5R0
SIS6D28N-6R0R	6.0	±30	10	35	2.25	N6R0
SIS6D28N-7R3R	7.3	±30	10	54	2.10	N7R3
SIS6D28N-8R6R	8.6	±30	10	58	1.85	N8R6
SIS6D28N-100R	10	±30	10	65	1.70	N100
SIS6D28N-120R	12	±30	10	70	1.55	N120
SIS6D28N-150R	15	±30	10	84	1.40	N150
SIS6D28N-180R	18	±30	10	95	1.32	N180
SIS6D28N-220R	22	±30	10	128	1.20	N220
SIS6D28N-270R	27	±30	10	142	1.05	N270
SIS6D28N-330R	33	±30	10	165	0.97	N330
SIS6D28N-390R	39	±30	10	210	0.86	N390
SIS6D28N-470R	47	±30	10	238	0.80	N470
SIS6D28N-560R	56	±30	10	277	0.73	N560
SIS6D28N-680R	68	±30	10	304	0.65	N680
SIS6D28N-820R	82	±30	10	390	0.60	N820
SIS6D28N-101R	100	±30	10	535	0.54	N101

**Notes:**

1. Ordering Information: SIS6D28a - bbbRc.  
 SIS6D28 = Product Type.  
 a = Tolerance of Inductance (N= ±30%).  
 bbb = Inductance value in uH (i.e. 3R9 = 3.9uH; 390 = 39uH; 101 = 100uH).  
 R = Internal Control Code.  
 c = Packaging Code (T = Tape & Reel Packaging in 13 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=30°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.

