











-  Low Profile
-  Magnetically Shielded
-  Ideal for mobile phone, PDA, Mp3, DSC/DVC, Portable DVD, etc as DC-DC converter Inductors applications
-  Custom inductance value is available
-  RoHS compliant



**ELECTRICAL SPECIFICATION @ 25°C**

Part Number	Inductance <sup>2</sup> (uH)	Inductance Tolerance(%)		DCR (mΩ) (Max)	Isat <sup>4</sup> (A)			Irms <sup>5</sup> (A) Typ.	Marking (XYYY)
		M	N		20°C	100°C	105°C		
SIS4040BN-3R3R	3.3	N/A	±30	66	0.80	0.52	N/A	2.00	BN3R3
SIS4040BN-3R9R	3.9	N/A	±30	81	0.75	0.44	N/A	1.75	BN3R9
SIS4040BN-4R7R	4.7	N/A	±30	91	0.68	0.43	N/A	1.72	BN4R7
SIS4040BN-5R6R	5.6	N/A	±30	102	0.62	0.38	N/A	1.64	BN5R6
SIS4040BN-6R8R	6.8	N/A	±30	130	0.58	0.34	N/A	1.30	BN6R8
SIS4040BN-8R2R	8.2	N/A	±30	140	0.51	0.32	N/A	1.28	BN8R2
SIS4040BN-100R	10	N/A	±30	190	0.46	0.27	N/A	1.07	BN100
SIS4040BN-120R	12	N/A	±30	205	0.42	0.26	N/A	0.98	BN120
SIS4040BN-150R	15	N/A	±30	272	0.38	0.23	N/A	0.87	BN150
SIS4040BN-180R	18	N/A	±30	327	0.34	0.21	N/A	0.76	BN180
SIS4040BN-220R	22	N/A	±30	356	0.31	0.18	N/A	0.66	BN220
SIS4040BN-270R	27	N/A	±30	470	0.28	0.17	N/A	0.60	BN270
SIS4040BN-330R	33	N/A	±30	560	0.26	0.16	N/A	0.55	BN330
SIS4040BN-390R	39	N/A	±30	700	0.24	0.15	N/A	0.47	BN390
SIS4040BN-470R	47	N/A	±30	775	0.21	0.13	N/A	0.45	BN470
SIS4040CN-1R7R	1.7	N/A	±30	51	2.00	N/A	1.50	2.40	CN1R7
SIS4040CN-2R2R	2.2	N/A	±30	59	1.75	N/A	1.30	2.30	CN2R2
SIS4040CN-3R3R	3.3	N/A	±30	85	1.40	N/A	1.10	1.80	CN3R3
SIS4040CN-4R7R	4.7	N/A	±30	116	1.20	N/A	0.90	1.50	CN4R7
SIS4040CN-6R8R	6.8	N/A	±30	180	1.00	N/A	0.72	1.10	CN6R8
SIS4040CM-100R	10	±20	N/A	230	0.84	N/A	0.62	1.00	CM100
SIS4040CM-150R	15	±20	N/A	410	0.65	N/A	0.52	0.75	CM150
SIS4040CM-220R	22	±20	N/A	610	0.55	N/A	0.43	0.52	CM220
SIS4040CM-330R	33	±20	N/A	870	0.46	N/A	0.35	0.41	CM330

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**ELECTRICAL SPECIFICATION @ 25°C**

Part Number	Inductance <sup>2</sup> (uH)	Inductance Tolerance(%)	DCR (mΩ) (Max)	Rated <sup>3</sup> Current (A)	Marking (YYYY)
		N			
SIS4040AN-1R5R	1.5	±30	52	1.55	AN1R5
SIS4040AN-2R2R	2.2	±30	72	1.20	AN2R2
SIS4040AN-3R3R	3.3	±30	85	1.10	AN3R3
SIS4040AN-4R7R	4.7	±30	105	0.90	AN4R7
SIS4040AN-6R8R	6.8	±30	170	0.73	AN6R8
SIS4040AN-100R	10	±30	210	0.55	AN100
SIS4040AN-150R	15	±30	295	0.45	AN150
SIS4040AN-220R	22	±30	430	0.40	AN220
SIS4040AN-330R	33	±30	675	0.32	AN330

**Notes:**

1. Ordering Information: SIS4040Xa - bbbRc.  
 SIS4040X = Product Type(X = A, B, C).  
 a = Tolerance of Inductance (M= ±20%, N= ±30%).  
 bbb = Inductance value in uH (i.e. 3R3 = 3.3uH; 120 = 12uH; 330 = 33uH).  
 R = Internal Control Code.  
 c = Packaging Code (U = Tape & Reel Packaging in 7 inch Reel).
2. Inductance is tested at 100kHz, 1Vrms.
3. The rated current indicates the current value when either the inductance is approximate 35% lower than its nominal value in D.C. saturation characteristics, or the temperature raise becomes T=30°C, whichever is lower.
4. The Isat current indicates the DC current value when the inductance becomes approximate 35% lower than its nominal value.
5. The Irms current indicates the current value when the temperature of the coil becomes T=40°C.
6. Operating temperature range: -40°C to +125°C.
7. 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.

