






-  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

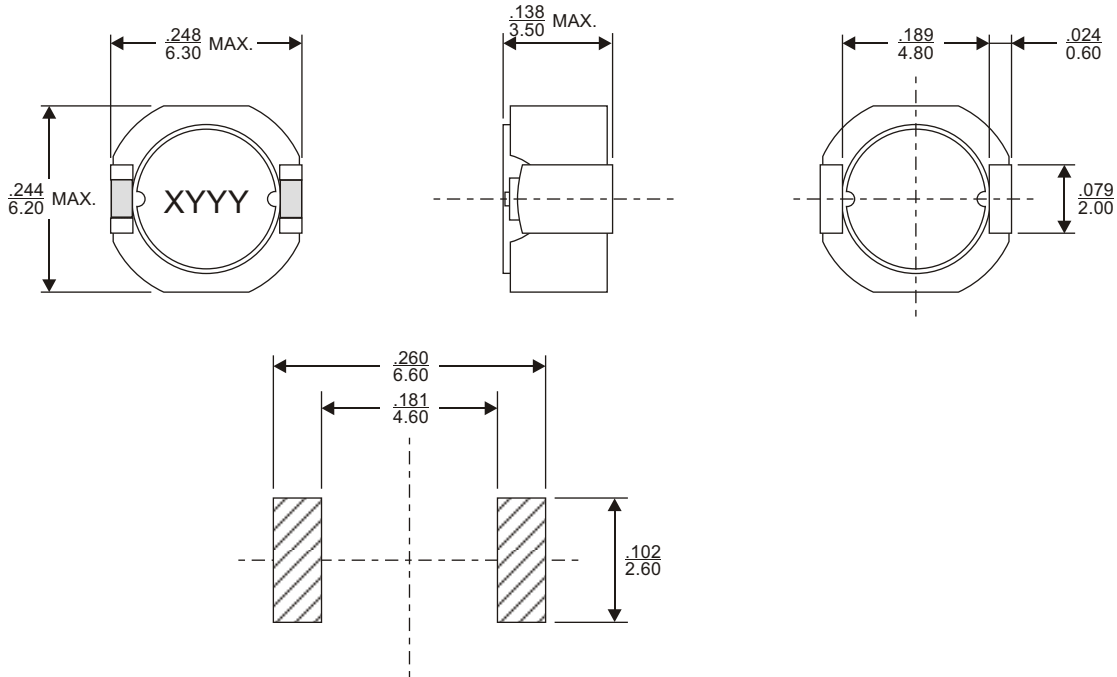
Part Number	Inductance ² L (uH)	Inductance Tolerance(%)	DCR (m) Max.	Inductance ³ Decrease Current (A) Max	Temperature ⁴ Rise Current (A) Max	Marking (XYYY)
		M				
SIS916M-2R0R	2.0	± 20	19.1	3.0	3.30	M2R0
SIS916M-2R7R	2.7	± 20	22.0	2.7	3.12	M2R7
SIS916M-3R3R	3.3	± 20	25.7	2.6	2.81	M3R3
SIS916M-4R7R	4.7	± 20	31.6	2.1	2.51	M4R7
SIS916M-6R2R	6.2	± 20	35.0	1.9	2.41	M6R2
SIS916M-8R2R	8.2	± 20	46.5	1.6	2.11	M8R2
SIS916M-100R	10.0	± 20	49.4	1.5	1.97	M100
SIS916M-120R	12.0	± 20	62.0	1.3	1.73	M120
SIS916M-150R	15.0	± 20	77.0	1.2	1.54	M150
SIS916M-180R	18.0	± 20	81.5	1.1	1.52	M180
SIS916M-220R	22.0	± 20	106.0	0.97	1.29	M220
SIS916M-270R	27.0	± 20	140.0	0.83	1.11	M270
SIS916M-330R	33.0	± 20	162.0	0.76	1.02	M330
SIS916M-390R	39.0	± 20	192.0	0.70	0.96	M390
SIS916M-470R	47.0	± 20	209.0	0.68	0.89	M470
SIS916M-560R	56.0	± 20	257.0	0.61	0.80	M560
SIS916M-680R	68.0	± 20	320.0	0.56	0.71	M680
SIS916M-820R	82.0	± 20	420.0	0.47	0.61	M820
SIS916M-101R	100.0	± 20	477.0	0.45	0.57	M101
SIS916M-151R	150.0	± 20	664.0	0.37	0.48	M151

Notes:

1. Ordering Information: SIS916a - bbbRc.
 SIS916 = Product Type.
 a = Tolerance of Inductance (M= ±20%).
 bbb = Inductance value in uH (i.e. 2R7 = 2.7uH; 270 = 27uH; 151 = 150uH).
 R = Internal Control Code.
 c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Test frequency range: L<10uH@ 1MHz,
 L>10uH@ 10kHz.
3. Rated D.C. current indicates the value of the current when the inductance is 30% typical lower than its initial
4. Temperature rise current is the value of current when the temperature rising T=40°C.
5. Operating temperature range: -40°C to +125°C.
6. 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



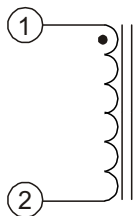
RECOMMENDED PATTERNS

Notes:

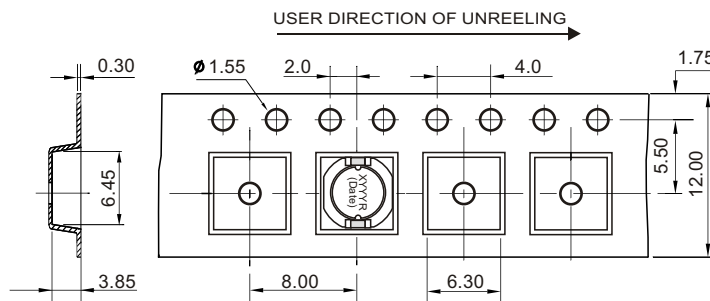
- All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 0.8 typ.
Tape & Reel	: 2000 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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