




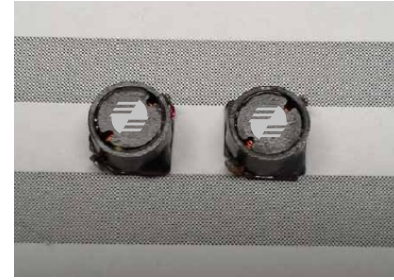


-  Magnetically Shielded
-  Low profile and Low DC resistance
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

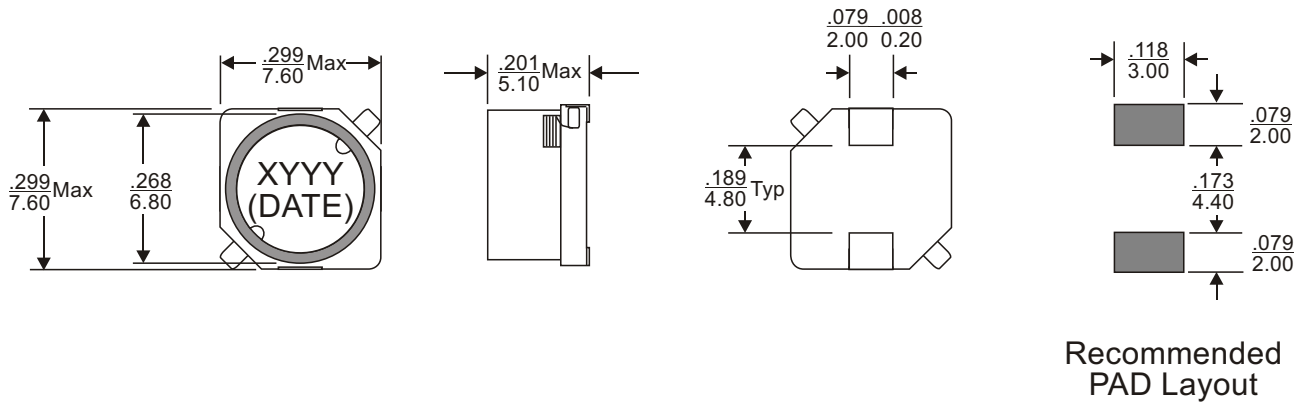
Part Number	Inductance L (uH)	Inductance Tolerance(%)	DCR (m)	Test ² Frequency (kHz)	Rated ³ DC Current (A) Max	Marking (XYYY)
		M	Max			
SIS646CM-1R0R	1.0	± 20	0.020	100	2.80	M1R0
SIS646CM-1R5R	1.5	± 20	0.024	100	2.59	M1R5
SIS646CM-2R2R	2.2	± 20	0.028	100	2.38	M2R2
SIS646CM-3R3R	3.3	± 20	0.034	100	2.14	M3R3
SIS646CM-4R7R	4.7	± 20	0.039	100	1.96	M4R7
SIS646CM-6R8R	6.8	± 20	0.050	100	1.79	M6R8
SIS646CM-100R	10.0	± 20	0.055	100	1.63	M100
SIS646CM-120R	12.0	± 20	0.073	100	1.42	M120
SIS646CM-150R	15.0	± 20	0.081	100	1.33	M150
SIS646CM-180R	18.0	± 20	0.102	100	1.15	M180
SIS646CM-220R	22.0	± 20	0.115	100	1.09	M220
SIS646CM-270R	27.0	± 20	0.159	100	0.91	M270
SIS646CM-330R	33.0	± 20	0.182	100	0.84	M330
SIS646CM-390R	39.0	± 20	0.199	100	0.80	M390
SIS646CM-470R	47.0	± 20	0.221	100	0.75	M470
SIS646CM-560R	56.0	± 20	0.306	100	0.64	M560
SIS646CM-680R	68.0	± 20	0.345	100	0.60	M680
SIS646CM-820R	82.0	± 20	0.390	100	0.57	M820
SIS646CM-101R	100.0	± 20	0.432	100	0.50	M101
SIS646CM-121R	120.0	± 20	0.44	100	0.47	M121
SIS646CM-151R	150.0	± 20	0.73	100	0.40	M151
SIS646CM-181R	180.0	± 20	0.78	100	0.39	M181
SIS646CM-221R	220.0	± 20	0.94	100	0.33	M221
SIS646CM-271R	270.0	± 20	1.25	100	0.31	M271
SIS646CM-331R	330.0	± 20	1.40	100	0.27	M331
SIS646CM-391R	390.0	± 20	1.52	100	0.27	M391
SIS646CM-471R	470.0	± 20	1.70	100	0.25	M471
SIS646CM-561R	560.0	± 20	2.39	100	0.22	M561

Notes:

1. Ordering Information: SIS646Ca - bbbRc.
 SIS646C = Product Type.
 a = Tolerance of Inductance (M= ±20%).
 bbb = Inductance value in uH (i.e. 1R5 = 1.5uH; 150 = 15uH; 151 = 150uH).
 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. Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller (reference ambient temperature 20°C).
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



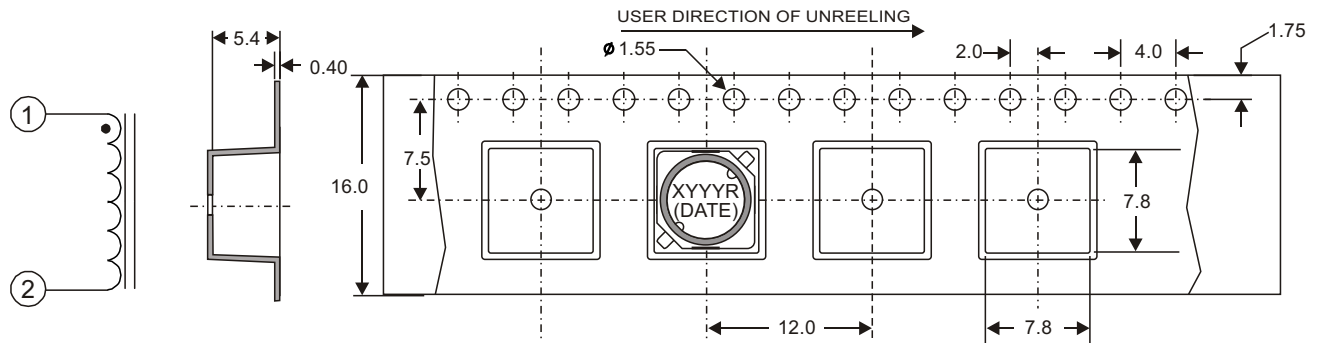
Notes:

- 6. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 7. Unless otherwise specified, all tolerances are ± 0.10
 ± 0.25 .

Weight (in gram)	: 2.0 typ.
Tape & Reel	: 900 / reel

SCHEMATIC

PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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