




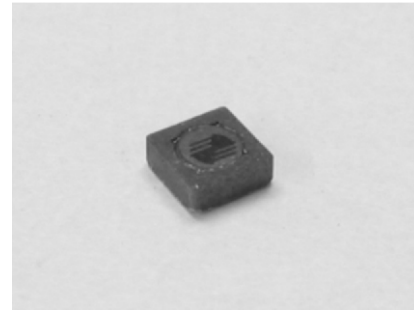


-  Magnetically Shielded
-  Miniature in size and high energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

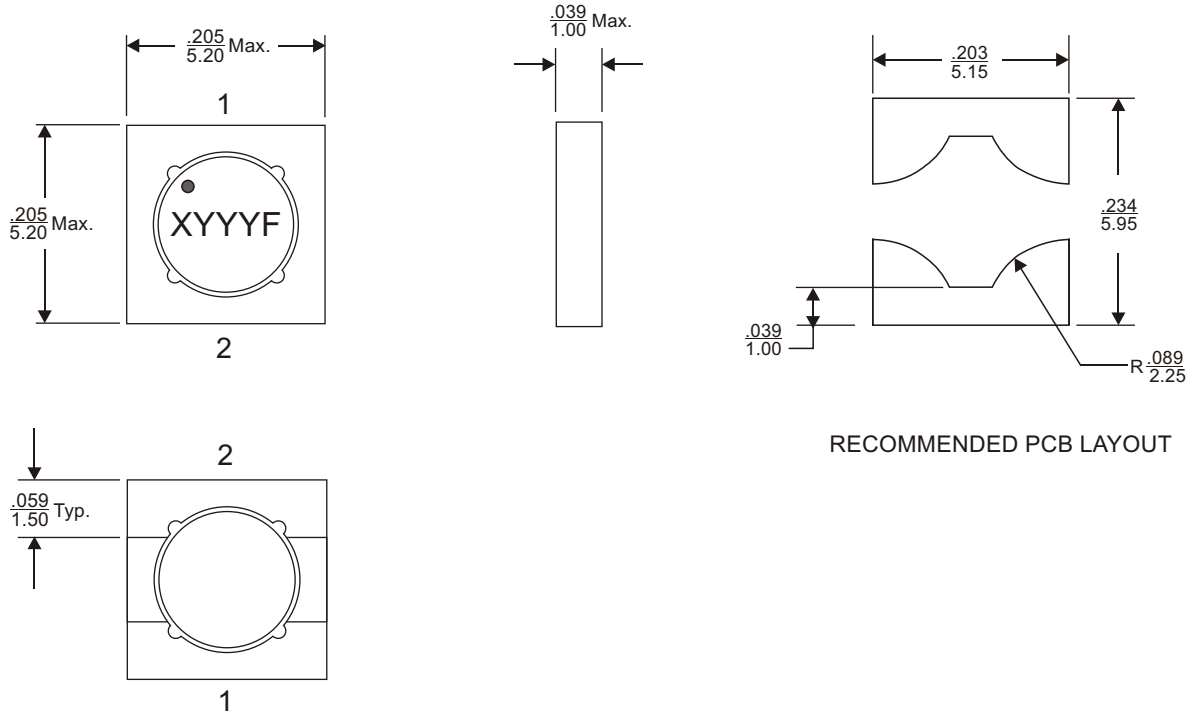
Part Number	Rated ⁵ Inductance (uH) Typ	Inductance ² (uH ±20%)	Test Frequency (kHz)	I _{rms} ⁴ (A)	I _{sat} ³ (A)	DCR (Typ)	Volt- Sec ⁵ Typ.	Marking XYYY
SIS5210M-R47F	0.47	0.453	100	2.59	3.54	24.9m	2.1	MR47
SIS5210M-1R0F	1.00	1.119	100	1.93	2.25	44.8m	3.3	M1R0
SIS5210M-1R5F	1.50	1.563	100	1.60	1.91	65.3m	3.9	M1R5
SIS5210M-2R2F	2.20	2.081	100	1.35	1.65	91.2m	4.5	M2R2
SIS5210M-3R3F	3.30	3.339	100	1.24	1.31	107.8m	5.7	M3R3
SIS5210M-4R7F	4.70	4.893	100	1.04	1.08	153.5m	6.9	M4R7
SIS5210M-6R2F	6.20	6.743	100	0.94	0.92	218.0m	8.1	M6R2
SIS5210M-8R2F	8.20	8.889	100	0.80	0.80	260.7m	9.3	M8R2
SIS5210M-100F	10.0	10.07	100	0.76	0.752	336.0m	9.9	M100
SIS5210M-150F	15.0	15.55	100	0.613	0.605	442.9m	12.3	M150
SIS5210M-220F	22.0	22.21	100	0.498	0.506	671.8m	14.7	M220

Notes:

- Ordering Information: SIS5210a - bbbFc.
SIS5210 = Product Type.
a = Tolerance of Inductance (M = ±20%).
bbb = Inductance value in uH (i.e. R47=0.47uH; 4R7 = 4.7uH; 150 = 15uH).
F = Internal Control Code.
c = Packaging Code (U = Tape & Reel Packaging in 7 inch Reel).
- Inductance is tested at 0.25V_{rms}, 100kHz.
- Saturation current, I_{sat}, indicates the value of DC current when the inductance is 30% typical lower than its initial value.
- Heating current, I_{rms}, is the value of current when the temperature rising T=40°C typical.
- Rated inductance and volt-uSec are for reference only.
- Operating temperature range: -40°C to +125°C.
- 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



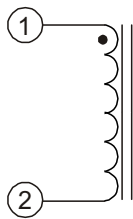
RECOMMENDED PCB LAYOUT

Notes:

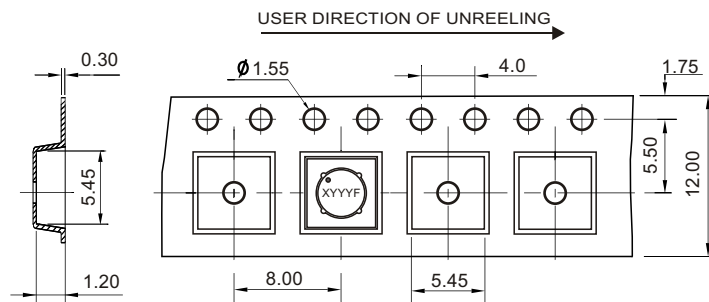
- 8. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 9. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 1.0 typ.
Tape & Reel	: 1000 / reel

SCHMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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