






-  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

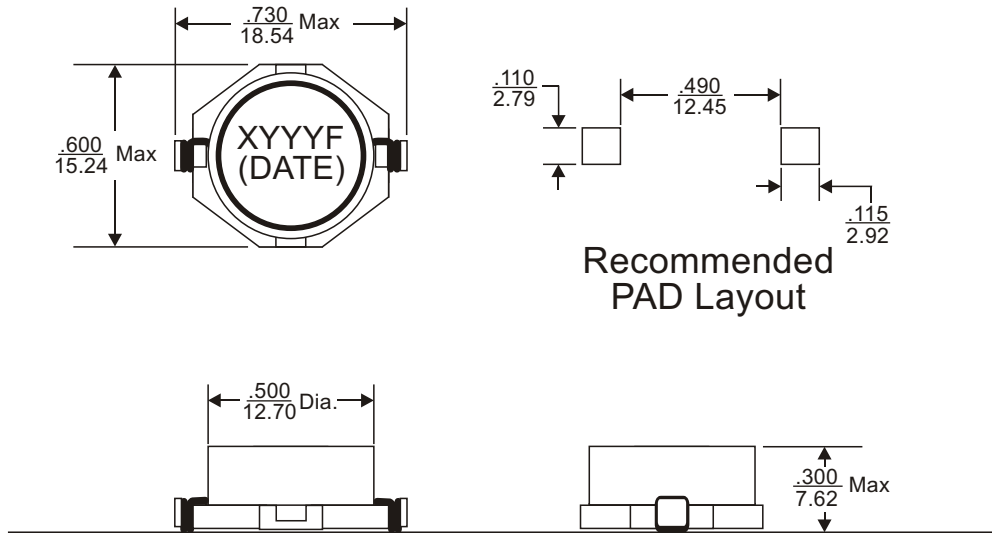
Part Number	Inductance ² (uH ± 20%)	DCR (m Max)	SRF (MHz Typ)	Isat ³ (A)	Irms ⁴ (A)	Marking (YYYY)
SIS5022M-103F	10	40	30	8.0	3.9	M103
SIS5022M-153F	15	48	20	7.0	3.4	M153
SIS5022M-223F	22	59	18	6.0	3.1	M223
SIS5022M-333F	33	75	14	5.0	2.8	M333
SIS5022M-473F	47	97	10	4.0	2.4	M473
SIS5022M-683F	68	138	9	3.0	2.0	M683
SIS5022M-104F	100	207	7	2.4	1.7	M104
SIS5022M-154F	150	293	6	2.1	1.3	M154
SIS5022M-224F	220	470	5	1.9	1.1	M224
SIS5022M-334F	330	780	4	1.1	0.86	M334
SIS5022M-474F	470	1080	3	1.1	0.73	M474
SIS5022M-684F	680	1400	2.5	0.96	0.64	M684
SIS5022M-105F	1000	2010	2	0.80	0.53	M105

Notes:

1. Ordering Information: SIS5022a - bbbFc.
 SIS5022 = Product Type.
 a = Tolerance of Inductance (M= ±20%).
 bbb = Inductance value in uH (i.e. 153 = 15uH; 154 = 150uH; 105 = 1000uH).
 F = Internal Control Code.
 c = Packaging Code (U = Tape & Reel Packaging in 7 inch Reel).
2. Inductance is tested at 0.1Vrms, 100kHz.
3. Saturation current, Isat, indicates the value of DC current when the inductance is 10% typical lower than its initial value.
4. Heating current, Iirms, is the value of current when the temperature rising T=40°C typical.
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

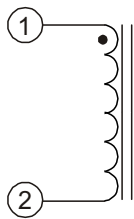


Notes:

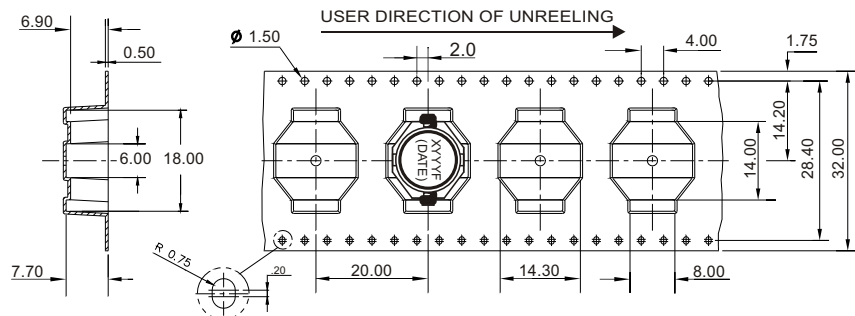
- 7. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 8. Unless otherwise specified, all tolerances are $\pm \frac{.010}{.025}$.

Weight (in gram)	: 2.5 typ.
Tape & Reel	: 350 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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