





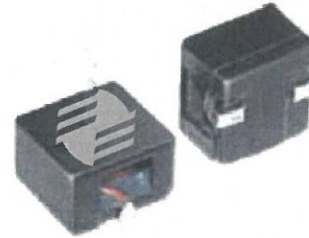


-  Magnetically Shielded
-  Low DC resistance
-  High energy storage and high DC current
-  Ideal for computers and portable power devices, DC-DC converters, energy storage applications and Input-Output filter applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



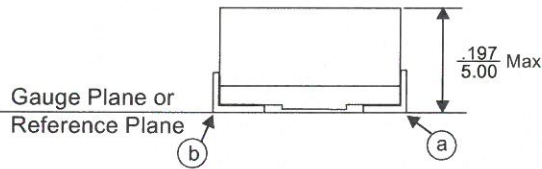
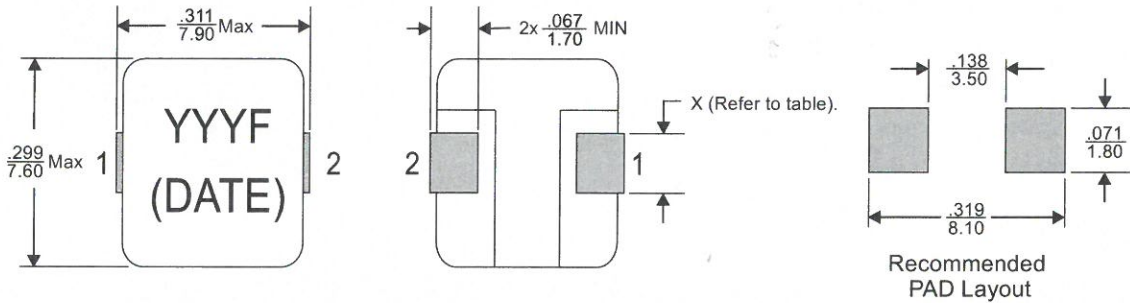
ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance ² @0Adc ($\mu\text{H} \pm 20\%$)	I _{rated} ⁴ (A)	Inductance @I _{rated} (μH TYP.)	DCR ³ ($\text{m}\Omega$) $\pm 6\%$	Heating Current I _{dc} TYP (A) ⁶	Saturation Current I _{sat} TYP (A) ⁵	Marking (YYYYF)
RIS7950M-401F	0.4	20.0	0.32	3.3	20	32.0	401F
RIS7950M-681F	0.68	17.5	0.54	4.3	17.5	25.0	681F
RIS7950M-102F	1.0	14.5	0.8	5.8	14.5	22.0	102F
RIS7950M-152F	1.5	13.3	1.2	6.8	13.3	18.0	152F
RIS7950M-222F	2.2	10.0	1.7	12.7	10.0	14.0	222F
RIS7950M-332F	3.3	9.5	2.6	16.6	9.5	13.0	332F
RIS7950M-472F	4.7	9.0	3.7	18.4	9.0	10.0	472F
RIS7950M-682F	6.8	6.0	5.4	26.4	6.0	8.0	682F

Notes:

1. Ordering Information: RIS7950a - bbbF_c.
RIS7950 = Product Type.
a = Tolerance of Inductance (M= $\pm 20\%$).
bbb = Inductance value in μH (i.e. 681 = 0.68 μH ; 152 = 1.5 μH ; 472 = 4.7 μH).
F = Internal Control Code.
c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance is tested at 100kHz, 100mV.
3. The DCR is measured from point a to point b, as shown on the mechanical dimension.
4. The rated current listed is the lower of saturation current(@25°C) or the heating current. And the inductance at I_{rated} is a typical inductance value for the part taken at rated current.
5. Saturation current will cause the inductance drop by approximate 20%(typical) of its initial value.
6. Heat rating current will cause an approximate temperature change of 40°C.
7. Operating temperature range: -40°C to +125°C.
8. 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



Table

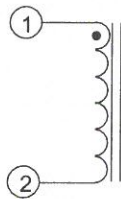
P/N	X(Ref.)
RIS7950M-401F	1.2mm
RIS7950M-681F	1.2mm
RIS7950M-102F	1.1mm
RIS7950M-152F	1.1mm
RIS7950M-222F	0.8mm
RIS7950M-332F	0.7mm
RIS7950M-472F	0.7mm
RIS7950M-682F	0.7mm

Notes:

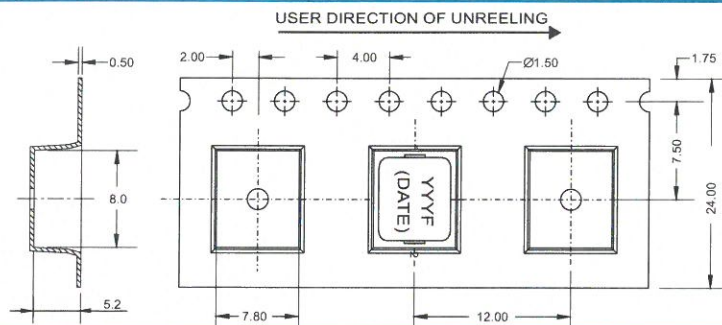
- All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 1.2 typ.
Tape & Reel	: 800 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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