




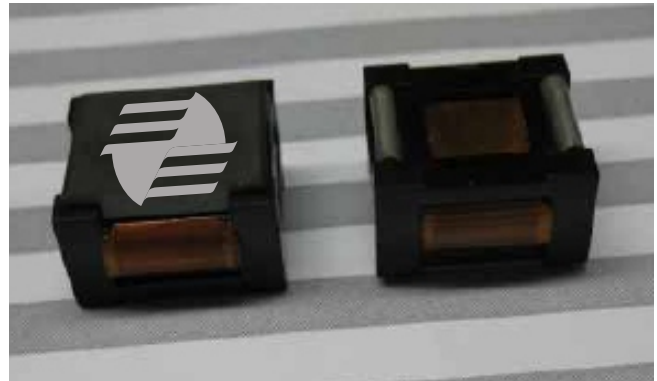


-  Low voltage and High current
-  Frequency Range up to 1MHz
-  Ideal for next generation microprocessor, DC-DC converters, energy storage applications and computer applications
-  Operating temperature -40 C to +125 C
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

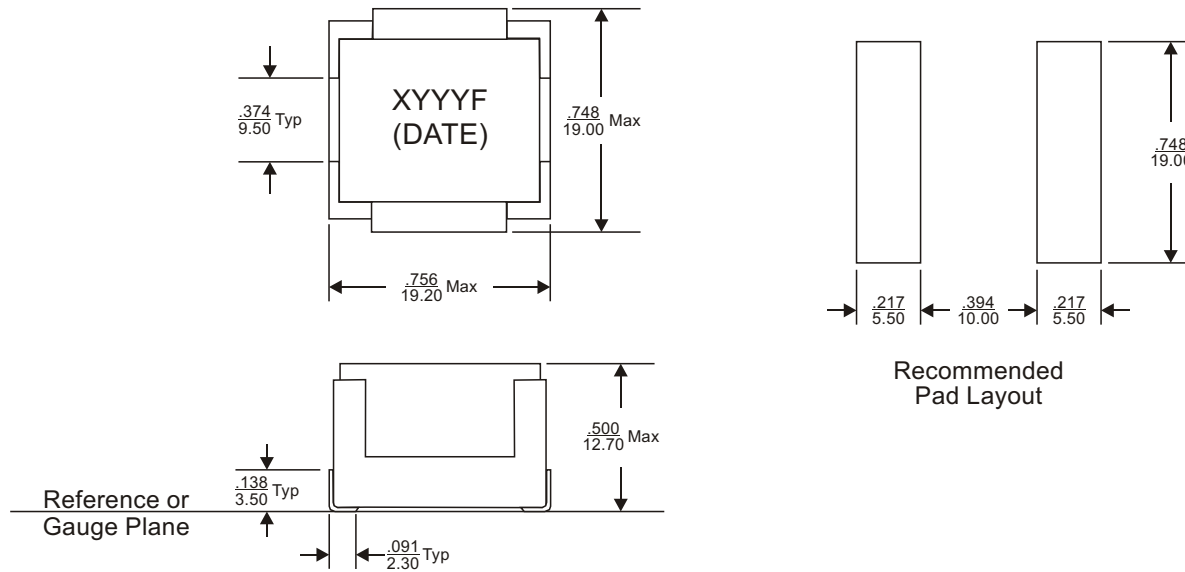
Part Number	Rated Inductance (H Typ)	Inductance ² (H)	Inductance Tolerance	DCR (m)	Isat ⁴ (A)	Irms ⁵ (A)	Volts ⁶ (µSec)	Marking (YYYY)
			M	Max	Typ.	Typ.		
SISHC1919M-R47F	0.47	0.52	±20%	0.6	63.75	52.9	6.87	MR47
SISHC1919M-R68F	0.68	0.63	±20%	0.6	50.00	52.9	6.87	MR68
SISHC1919M-R90F	0.90	0.90	±20%	1.2	48.00	38.0	10.31	MR90
SISHC1919M-1R0F	1.0	1.15	±20%	1.3	42.50	33.0	10.31	M1R0
SISHC1919M-2R2F	2.2	2.00	±20%	2.3	31.90	24.3	13.75	M2R2
SISHC1919M-4R7F	4.7	4.55	±20%	4.6	21.25	17.0	20.62	M4R7
SISHC1919M-6R0F	6.0	6.00	±20%	4.6	16.50	17.0	20.62	M6R0

Notes:

1. Ordering Information: SISHC1919a - bbbFc.
 SISHC1919 = Product Type.
 a = Tolerance of Inductance (M = ±20%).
 bbb = Inductance value in uH (i.e. R47 = 0.47uH; 4R7 = 4.7uH).
 F = Internal Control Code.
 c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance is tested at 300kHz, 0.25Vrms.
3. Isat indicates the peak current for approximately 30% roll-off.
4. Irms indicates the DC current for an approximate temperature change of 40°C without core loss.
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

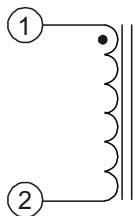


Notes:

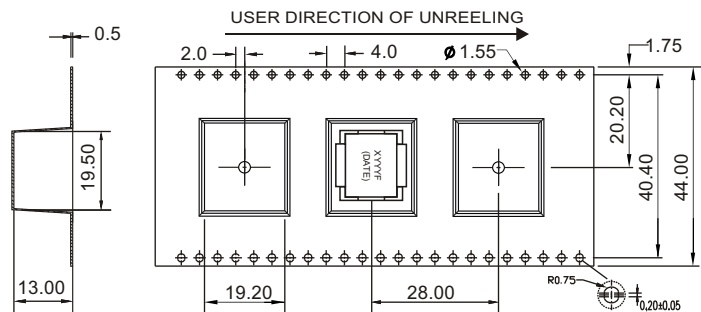
- 6. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 7. Unless otherwise specified, all tolerances are $\pm .010$ / 0.25 .

Weight (in gram)	: 12.5 typ.
Tape & Reel	: 120 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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