






-  Designed for high temperature applications.
-  Ideal for many automotive applications.
-  Self-leaded construction for excellent solderability.
-  Low DCR and high current handling.
-  Operating temperature -40 C to +155 C.



ELECTRICAL SPECIFICATION @ 25°C

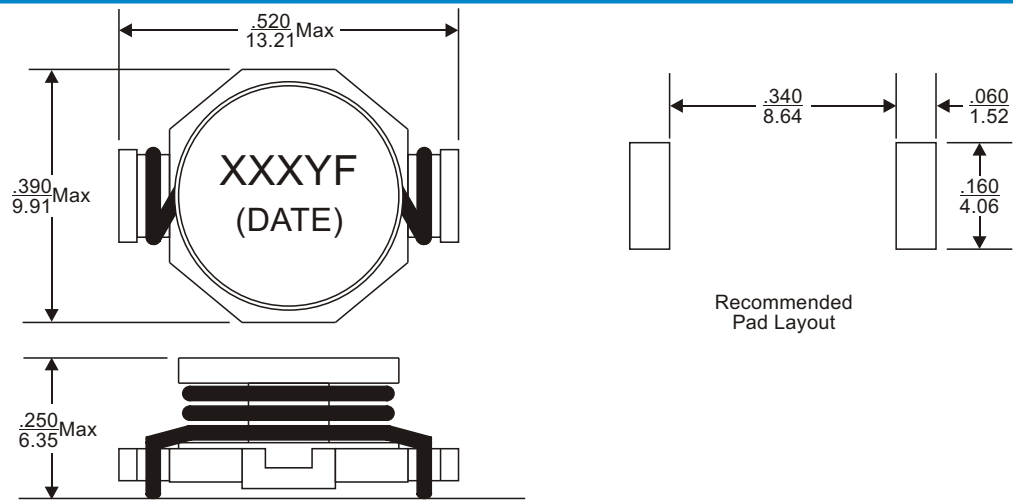
E & E Part Number UIS3316T-XXXMF	Inductance ² (H)	Inductance Tolerance	DCR () Max.	SRF (MHz) Typ.	Isat ³ (A)	Irms ⁴ (A)	Marking (XXXMF)
		M					
UIS3316T-331MF	0.33	±20%	0.002	200	20	16	331MF
UIS3316T-681MF	0.68	±20%	0.005	200	13	12	681MF
UIS3316T-102MF	1.0	±20%	0.006	100	11	10	102MF
UIS3316T-152MF	1.5	±20%	0.008	90	9	9	152MF
UIS3316T-222MF	2.2	±20%	0.011	90	7.8	7.4	222MF
UIS3316T-272MF	2.7	±20%	0.012	65	7.0	6.6	272MF
UIS3316T-332MF	3.3	±20%	0.014	60	6.4	5.9	332MF
UIS3316T-392MF	3.9	±20%	0.015	50	5.9	5.3	392MF
UIS3316T-472MF	4.7	±20%	0.018	50	5.4	4.8	472MF
UIS3316T-562MF	5.6	±20%	0.021	45	4.7	4.65	562MF
UIS3316T-682MF	6.8	±20%	0.024	43	4.4	4.40	682MF
UIS3316T-822MF	8.2	±20%	0.032	34	4.0	4.15	822MF
UIS3316T-103MF	10	±20%	0.034	31	3.9	3.90	103MF
UIS3316T-123MF	12	±20%	0.036	27	3.4	3.50	123MF
UIS3316T-153MF	15	±20%	0.045	25	3.1	3.10	153MF
UIS3316T-183MF	18	±20%	0.050	22	2.8	2.90	183MF
UIS3316T-223MF	22	±20%	0.070	18	2.5	2.70	223MF
UIS3316T-273MF	27	±20%	0.085	18	2.3	2.30	273MF
UIS3316T-333MF	33	±20%	0.100	17	2.0	2.10	333MF
UIS3316T-393MF	39	±20%	0.120	15	1.8	1.95	393MF
UIS3316T-473MF	47	±20%	0.150	14	1.65	1.80	473MF
UIS3316T-563MF	56	±20%	0.165	12	1.45	1.65	563MF
UIS3316T-683MF	68	±20%	0.220	11	1.40	1.50	683MF
UIS3316T-823MF	82	±20%	0.250	10	1.30	1.40	823MF
UIS3316T-104MF	100	±20%	0.280	9.0	1.20	1.30	104MF
UIS3316T-124MF	120	±20%	0.400	8.0	1.00	1.00	124MF
UIS3316T-154MF	150	±20%	0.460	6.0	0.90	0.90	154MF
UIS3316T-184MF	180	±20%	0.520	6.0	0.85	0.85	184MF
UIS3316T-224MF	220	±20%	0.700	5.0	0.80	0.80	224MF
UIS3316T-274MF	270	±20%	0.800	5.0	0.75	0.70	274MF
UIS3316T-334MF	330	±20%	1.07	4.5	0.60	0.60	334MF
UIS3316T-394MF	390	±20%	1.14	4.0	0.62	0.55	394MF
UIS3316T-474MF	470	±20%	1.27	3.5	0.50	0.50	474MF

Notes:

1. Ordering Information: UIS3316T- bbbaFc.
UIS3316T = Product Type.
bbb = Inductance value in uH (i.e. 331 = 0.33uH; 332 = 3.3uH; 333 = 33uH; 334 = 330uH).
a = Tolerance of Inductance (M = ±20%).
F = Internal Control Code.
c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance is tested at 100kHz, 0.1Vrms.
3. Saturation current, Isat, is the current at which the inductance of the component drops by 10% typical at an ambient temperature of 25 C.
4. Heating current, Iirms, is the current required to raise the part temperature by approximately 40 C. The heating current is determined by mounting the component on a typical PCB and applying current for 30 minutes.



MECHANICAL DIMENSIONS

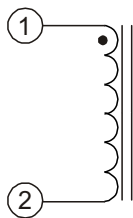


Notes:

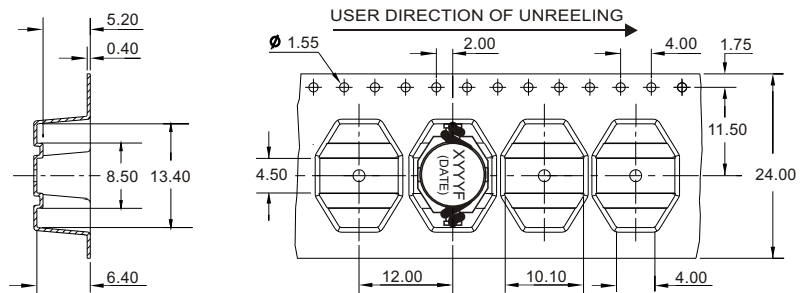
- The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in inches.
- Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 1.0 typ.
Tape & Reel	: 800 / reel

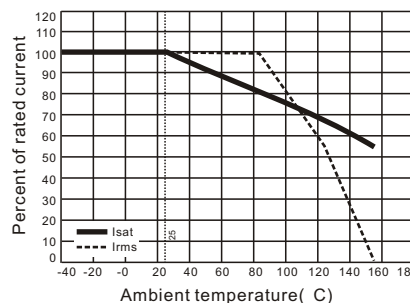
SCHEMATIC



PACKAGING



Current Derating



FOR MORE INFORMATION, PLEASE CONTACT

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