




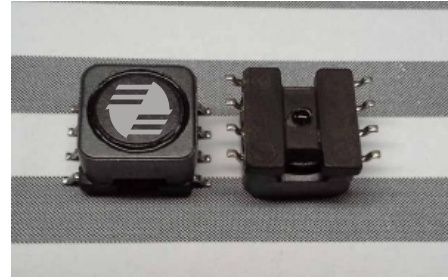







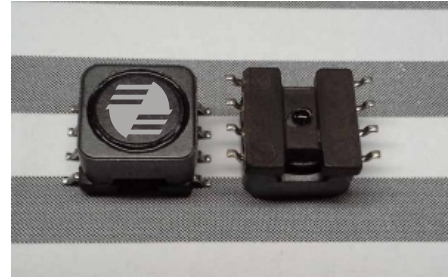
-  Magnetically Shielded
-  High inductance up to 10 mH
-  Low profile
-  Ideal for portable communication equipment, Camcorders, LCD TVs, Car radios and DC-DC converters applications
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance ² (uH)	Inductance Tolerance(%)		Q Typ.	Test ³ Frequency (MHz)	DCR () Max	SRF (MHz) Min	Isat ⁴ Typ (A)	I _{rms} ⁵ Max (A)	Marking (YYYY)
		M	Y							
SIS1160M-2R7F	2.7	±20	N/A	23	7.96	32m	85.0	5.80	3.20	M2R7
SIS1160M-3R5F	3.5	±20	N/A	23	7.96	36m	80.0	5.20	2.90	M3R5
SIS1160M-4R7F	4.7	±20	N/A	23	7.96	40m	40.0	4.30	2.70	M4R7
SIS1160M-5R6F	5.6	±20	N/A	23	7.96	46m	57.0	4.20	2.50	M5R6
SIS1160M-6R8F	6.8	±20	N/A	23	7.96	50m	38.0	3.40	2.30	M6R8
SIS1160M-8R2F	8.2	±20	N/A	23	7.96	55m	30.0	3.20	2.10	M8R2
SIS1160M-100F	10	±20	N/A	35	2.52	80m	29.0	2.70	1.80	M100
SIS1160M-120F	12	±20	N/A	35	2.52	85m	26.0	2.60	1.70	M120
SIS1160M-150F	15	±20	N/A	35	2.52	100m	23.0	2.40	1.60	M150
SIS1160M-180F	18	±20	N/A	35	2.52	110m	22.0	2.00	1.50	M180
SIS1160M-220F	22	±20	N/A	35	2.52	130m	19.0	1.90	1.40	M220
SIS1160M-270F	27	±20	N/A	35	2.52	140m	17.0	1.80	1.30	M270
SIS1160M-330F	33	±20	N/A	35	2.52	150m	15.0	1.60	1.20	M330
SIS1160M-390F	39	±20	N/A	35	2.52	160m	14.0	1.40	1.10	M390
SIS1160M-470F	47	±20	N/A	35	2.52	180m	12.0	1.30	1.00	M470
SIS1160M-560F	56	±20	N/A	35	2.52	300m	12.0	1.20	0.93	M560
SIS1160M-680F	68	±20	N/A	40	2.52	350m	9.0	1.00	0.85	M680
SIS1160M-820F	82	±20	N/A	40	2.52	370m	8.0	0.90	0.78	M820
SIS1160Y-101F	100	N/A	±15	40	0.796	420m	7.5	0.90	0.70	Y101
SIS1160Y-121F	120	N/A	±15	40	0.796	480m	7.0	0.75	0.65	Y121
SIS1160Y-151F	150	N/A	±15	40	0.796	550m	6.0	0.70	0.60	Y151
SIS1160Y-181F	180	N/A	±15	40	0.796	820m	5.5	0.70	0.52	Y181
SIS1160Y-221F	220	N/A	±15	40	0.796	1.0	5.0	0.60	0.48	Y221
SIS1160Y-271F	270	N/A	±15	40	0.796	1.1	5.0	0.55	0.44	Y271
SIS1160Y-331F	330	N/A	±15	40	0.796	1.3	4.5	0.51	0.40	Y331
SIS1160Y-391F	390	N/A	±15	40	0.796	1.4	4.2	0.50	0.38	Y391
SIS1160Y-471F	470	N/A	±15	40	0.796	1.6	4.0	0.40	0.35	Y471
SIS1160Y-561F	560	N/A	±15	60	0.796	2.7	3.2	0.35	0.28	Y561
SIS1160Y-681F	680	N/A	±15	60	0.796	3.2	2.7	0.33	0.25	Y681
SIS1160Y-821F	820	N/A	±15	85	0.796	3.5	2.6	0.30	0.23	Y821

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ELECTRICAL SPECIFICATION @ 25°C

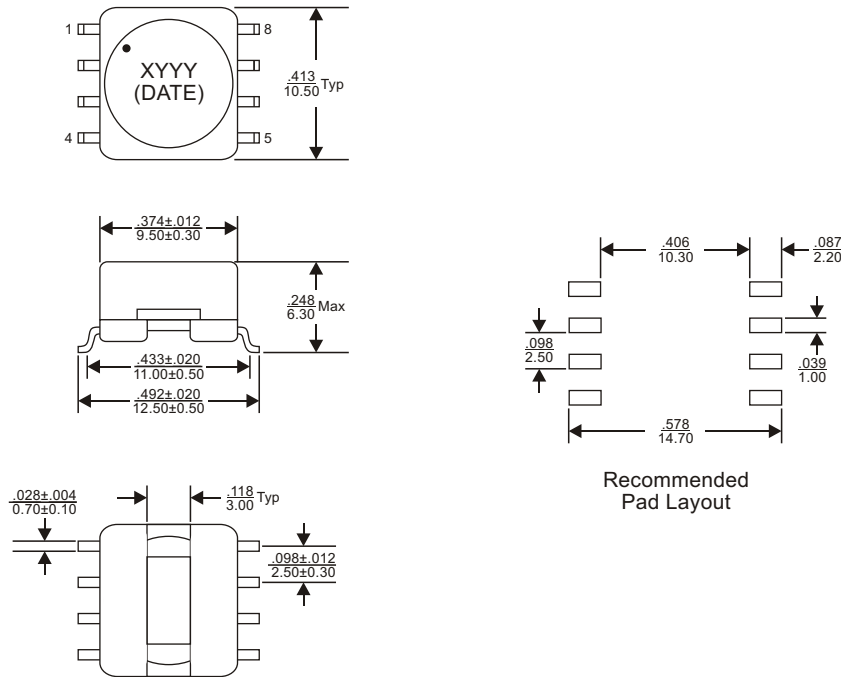
Part Number	Inductance ² (uH)	Inductance Tolerance(%)		Q Typ.	Test ³ Frequency (MHz)	DCR () Max	SRF (MHz) Min	Isat ⁴ Typ (A)	Irms ⁵ Max (A)	Marking (YYYY)
		M	Y							
SIS1160Y-102F	1000	N/A	±15	100	0.252	4.0	2.3	0.26	0.22	Y102
SIS1160Y-122F	1200	N/A	±15	100	0.252	4.4	2.3	0.24	0.20	Y122
SIS1160Y-152F	1500	N/A	±15	100	0.252	5.2	2.0	0.22	0.18	Y152
SIS1160Y-182F	1800	N/A	±15	100	0.252	7.0	1.7	0.20	0.17	Y182
SIS1160Y-222F	2200	N/A	±15	100	0.252	8.5	1.5	0.18	0.16	Y222
SIS1160Y-272F	2700	N/A	±15	100	0.252	9.2	1.4	0.17	0.14	Y272
SIS1160Y-332F	3300	N/A	±15	100	0.252	11.0	1.3	0.15	0.12	Y332
SIS1160Y-392F	3900	N/A	±15	100	0.252	16.0	1.2	0.13	0.11	Y392
SIS1160Y-472F	4700	N/A	±15	100	0.252	19.0	1.0	0.11	0.10	Y472
SIS1160Y-562F	5600	N/A	±15	100	0.252	21.0	0.9	0.11	0.09	Y562
SIS1160Y-682F	6800	N/A	±15	100	0.252	24.0	0.9	0.10	0.09	Y682
SIS1160Y-822F	8200	N/A	±15	100	0.252	31.0	0.8	0.09	0.08	Y822
SIS1160Y-103F	10000	N/A	±15	100	0.0796	38.0	0.7	0.08	0.07	Y103

Notes:

1. Ordering Information: SIS1160a - bbbFc.
 SIS1160 = Product Type.
 a = Tolerance of Inductance (M= ±20%, Y= ±15%).
 bbb = Inductance value in uH (i.e. 3R5 = 3.5uH; 330 = 33uH; 331 = 330uH; 332 = 3300uH; 103 = 10000uH).
 F = Internal Control Code.
 c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance is tested at 1kHz; 1Vrms.
3. Test frequency is specified as the frequency for measuring the Q value.
4. Isat, indicates the value of DC current when the inductance is 10% typical lower than its initial value.
5. Irms, Heating current, is the value of current when the temperature rising T=40°C typical.
6. Operating temperature range: -40°C to +125°C.
7. 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



MECHANICAL DIMENSIONS

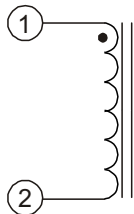


Notes:

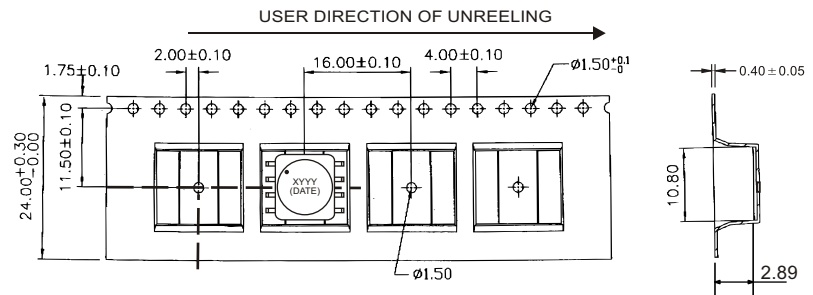
- 8. All dimensions are specified in inches with higher precedence in mm.
- 9. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 2.5 typ
Tape & Reel	: 550 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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