



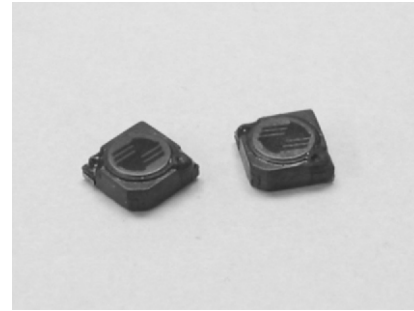


-  Miniature in size and high energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance (uH)	Tolerance (%)			Test Frequency ² (kHz)	DCR (Max)	Rated DC Current ³ (A)	Marking (YYYY)
		K	L	M				
SIS5D23M-2R2F	2.2	N/A	N/A	± 20	100	39m	2.16	M2R2
SIS5D23M-2R7F	2.7	N/A	N/A	± 20	100	44m	2.08	M2R7
SIS5D23M-3R3F	3.3	N/A	N/A	± 20	100	49m	1.90	M3R3
SIS5D23M-3R9F	3.9	N/A	N/A	±20	100	56m	1.84	M3R9
SIS5D23M-4R7F	4.7	N/A	N/A	± 20	100	62m	1.60	M4R7
SIS5D23M-5R6F	5.6	N/A	N/A	± 20	100	78m	1.44	M5R6
SIS5D23M-6R8F	6.8	N/A	N/A	± 20	100	91m	1.36	M6R8
SIS5D23M-8R2F	8.2	N/A	N/A	± 20	100	103m	1.12	M8R2
SIS5D23L-100F	10.0	N/A	± 15	N/A	100	133m	1.04	L100
SIS5D23L-120F	12.0	N/A	± 15	N/A	100	148m	0.96	L120
SIS5D23K-150F	15.0	± 10	N/A	N/A	100	166m	0.88	K150
SIS5D23K-180F	18.0	± 10	N/A	N/A	100	213m	0.77	K180
SIS5D23K-220F	22.0	± 10	N/A	N/A	100	248m	0.73	K220
SIS5D23K-270F	27.0	± 10	N/A	N/A	100	328m	0.64	K270
SIS5D23K-330F	33.0	± 10	N/A	N/A	100	378m	0.58	K330
SIS5D23K-390F	39.0	± 10	N/A	N/A	100	438m	0.54	K390
SIS5D23K-470F	47.0	± 10	N/A	N/A	100	546m	0.49	K470
SIS5D23K-560F	56.0	± 10	N/A	N/A	100	621m	0.45	K560
SIS5D23K-680F	68.0	± 10	N/A	N/A	100	715m	0.41	K680
SIS5D23K-820F	82.0	± 10	N/A	N/A	100	1.00	0.35	K820
SIS5D23K-101F	100	± 10	N/A	N/A	100	1.07	0.33	K101
SIS5D23K-121F	120	± 10	N/A	N/A	100	1.25	0.32	K121
SIS5D23K-151F	150	± 10	N/A	N/A	100	1.66	0.26	K151
SIS5D23K-181F	180	± 10	N/A	N/A	100	1.90	0.23	K181
SIS5D23K-221F	220	± 10	N/A	N/A	100	2.44	0.21	K221
SIS5D23K-271F	270	± 10	N/A	N/A	100	2.73	0.19	K271

Notes:

1. Ordering Information: SIS5D23a - bbbFc.

SIS5D23 = Product Type.

a = Tolerance of Inductance (K= ±10%; L= ±15%; M = ±20%).

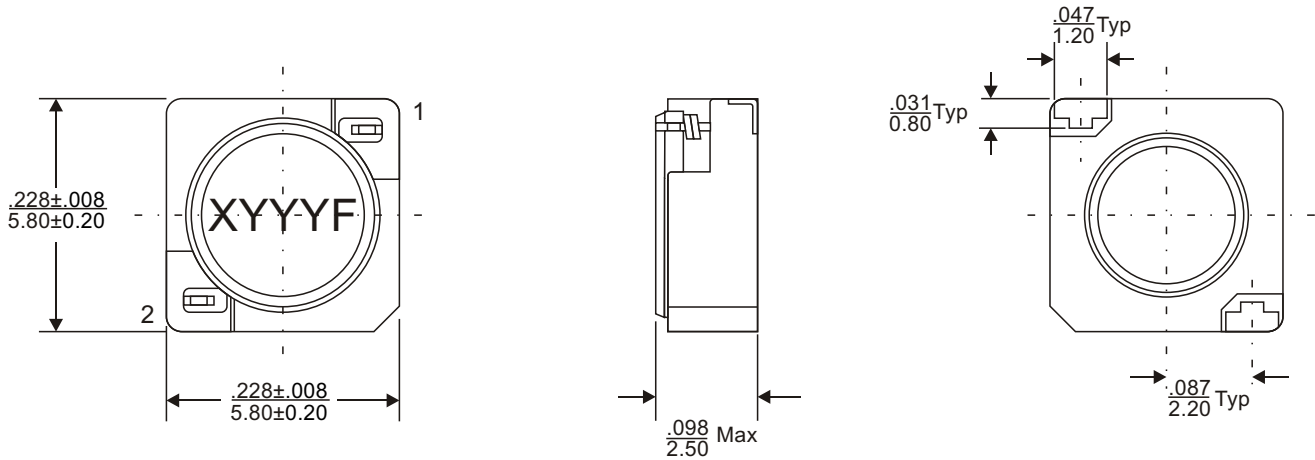
bbb = Inductance value in uH (i.e. 2R7 = 2.7uH; 270 = 270uH; 271 = 270uH).

F = Internal Control Code.

c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).



MECHANICAL DIMENSIONS

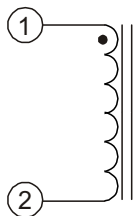


Notes:

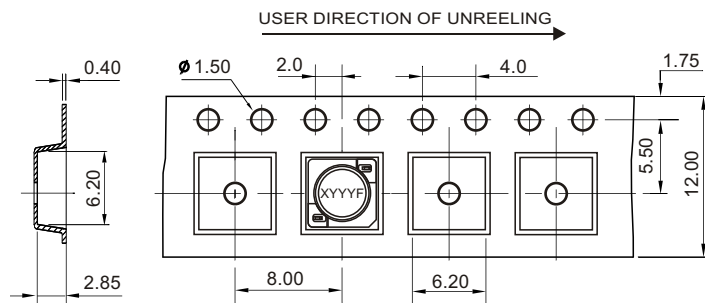
- Test frequency is specified as the frequency for measuring the inductance.
- Rated D.C. current indicates the value of the current when the inductance is 10% lower than its initial value or the current when temperature rising $T=40^{\circ}\text{C}$ at D.C. superposition.
- Operating temperature range: -40°C to $+125^{\circ}\text{C}$.
- 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 mm.
- Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 0.5 typ.
Tape & Reel	: 2800 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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