




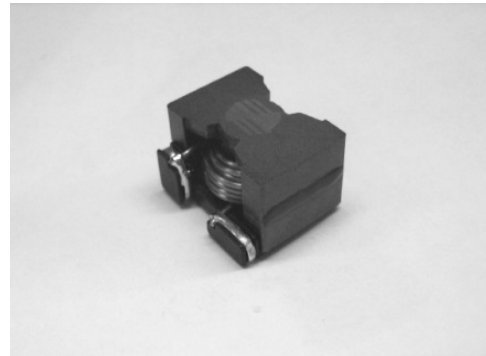


-  Used in high power application
-  Ideal for high current devices
-  Ideal for computers and portable power devices, DC-DC converters, energy storage applications and Input-Output filter applications
-  Custom design is also available
-  RoHS compliant



**ELECTRICAL SPECIFICATION @ 25°C**

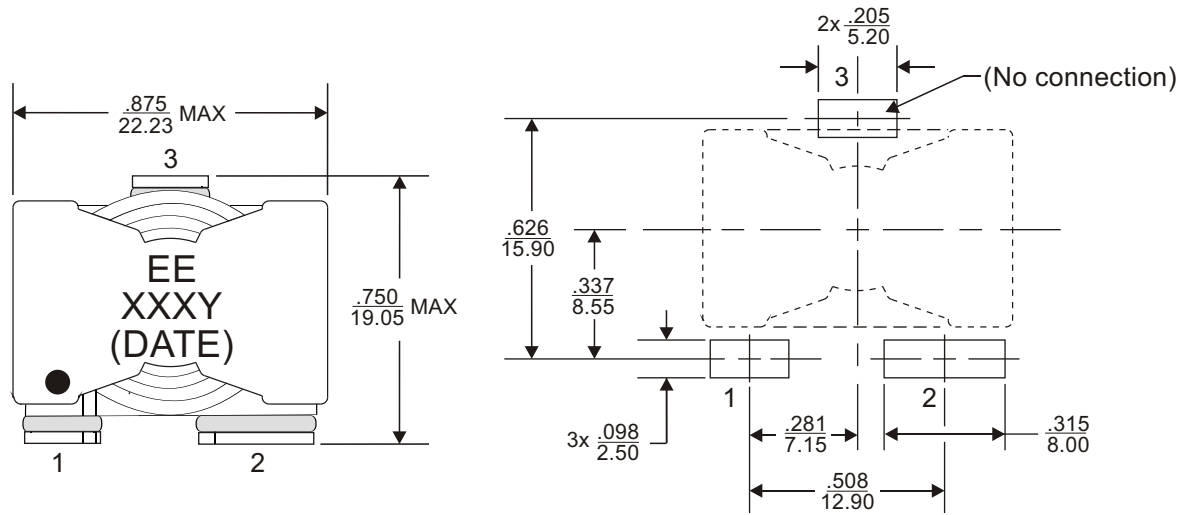
RoHS Part Number	Inductance <sup>2</sup> @0Adc (uH±10%)	Inductance <sup>5</sup> @Irated (uH Typ)	Irated <sup>6</sup> (Adc)	DCR (m ±10%)	Saturation Current <sup>3</sup> (Adc)		Heating Current <sup>4</sup> (A)	Marking XXXY
					25°C	100°C		
SIS2212K-5R8F	5.8	5.8	14.4	4.4	22	17	14.4	5R8F
SIS2212K-7R8F	7.8	7.8	13.3	5.1	18	16	13.3	7R8F
SIS2212K-100F	10.2	10.2	12.5	5.8	16	15	12.5	100F
SIS2212K-160F	16.0	16.0	9.9	9.1	12	11	9.9	160F
SIS2212K-190F	19.4	19.4	8.5	12.6	11	10	8.5	190F
SIS2212K-230F	23.0	23.0	8.0	13.7	9.8	8.0	8.1	230F
SIS2212K-270F	27.0	26.2	7.8	14.9	9.0	8.0	7.8	270F
SIS2212K-310F	31.4	30.6	6.7	20.2	8.4	8.0	6.7	310F
SIS2212K-360F	36.0	35.2	6.0	21.6	8.0	6.0	6.5	360F
SIS2212K-380F	38.9	37.5	6.0	18.8	6.3	6.0	6.2	380F
SIS2212K-410F	41.0	40.0	6.0	23.1	7.3	6.0	6.2	410F
SIS2212K-580F	57.8	57.8	5.0	34.5	6.2	5.0	5.1	580F

**Notes:**

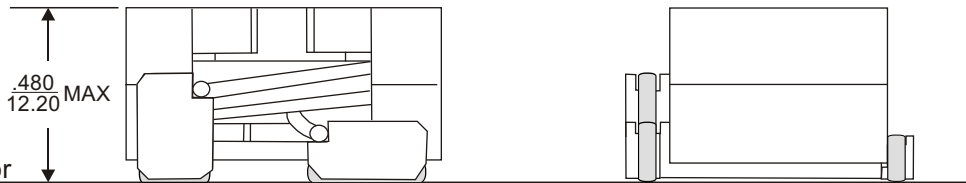
1. Ordering Information: SIS2212a - bbbFc.  
 SIS2212 = Product Type.  
 a = Tolerance of Inductance (K = ± 10%).  
 bbb = Nominal inductance value in uH (i.e. 5R8 = 5.8uH; 160 = 16.0uH).  
 F = Internal Control Code.  
 c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance is tested at 0.25Vrms, 100kHz.
3. Saturation current, Isat, indicates the value of DC current when the inductance is 20% typical lower than its initial value at stated ambient temperatures (25°C and 100°C).
4. Heating current, Irms, is the value of current when the temperature rising T=40°C typical.
5. Rated inductance is for reference only.
6. The rated current listed is the lower of the saturation current @25°C or the heating current.
7. Operating temperature range: -40°C to +130°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**



**Recommended Pad Layout**

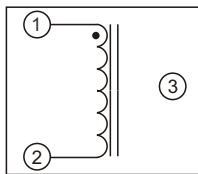


**Notes:**

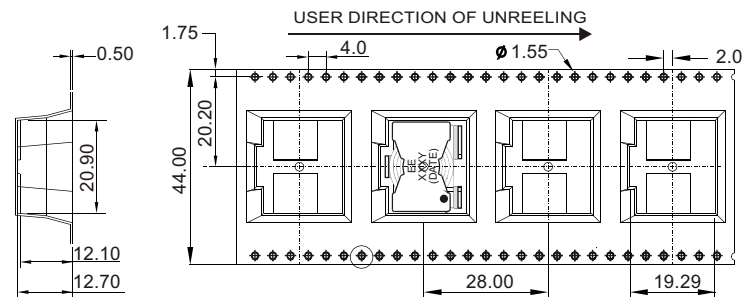
- 9. All dimensions are specified in  $\frac{\text{inches}}{\text{mm}}$  with higher precedence in mm.
- 10. Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$ .

Weight (in gram)	: 12.95 typ.
Tape & Reel	: 180 / reel

**SCHEMATIC**



**PACKAGING**



**FOR MORE INFORMATION, PLEASE CONTACT**

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