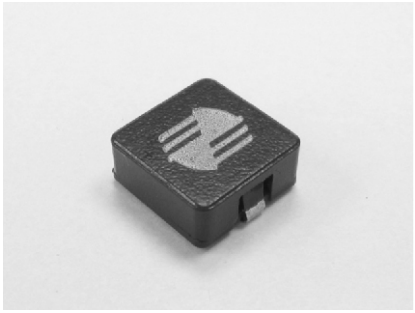
Elec & Eltek依利安達
E & E Magnetic Products Limited

HIGH CURRENT SMT POWER INDUCTORS

SIS6575 Series

- Used in high power application
- Large permissible DC current
- Ideal for computers and portable power devices, DC-DC converters, energy storage applications and Input-Output filter applications
- Operating temperature -40 C to +130 C
- RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance[2] @0Adc (H 20%)	DCR (m Max)	Saturation[3] Current Isat(A)	Heating[4] Current Irms(A)	Marking (XYYY)
SIS6575M-R18F	0.18	0.50	60	33	MR18
SIS6575M-R40F	0.40	1.00	48	24	MR40
SIS6575M-R80F	0.80	1.30	38	21	MR80
SIS6575M-1R4F	1.40	2.10	28	18	M1R4
SIS6575M-2R0F	2.00	2.90	24	16	M2R0

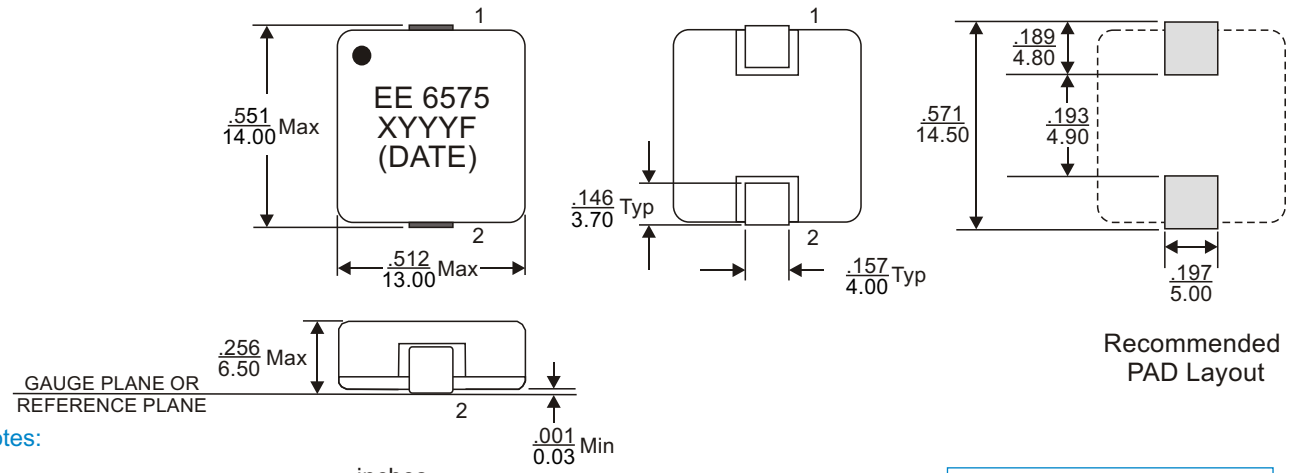
Notes:

1. Ordering Information: SIS6575a - bbbFc.

SIS6575	=	Product Type.
a	=	Tolerance of Inductance (M = ±20%).
bbb	=	Inductance value in uH (i.e. R40 = 0.40uH; 1R4 = 1.4uH).
F	=	Internal Control Code.
c	=	Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).

2. Inductance is tested at 100kHz, 0.1Vrms, 0Adc.
3. Saturation current, Isat, is the DC current at which the inductance of the component drops by 20% typical at ambient temperature of 25 C.
4. Heating current, Irms, is the current required to raise the part temperature by approximately 40 C.
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



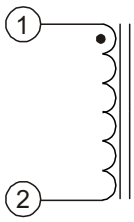
Recommended
PAD Layout

Notes:

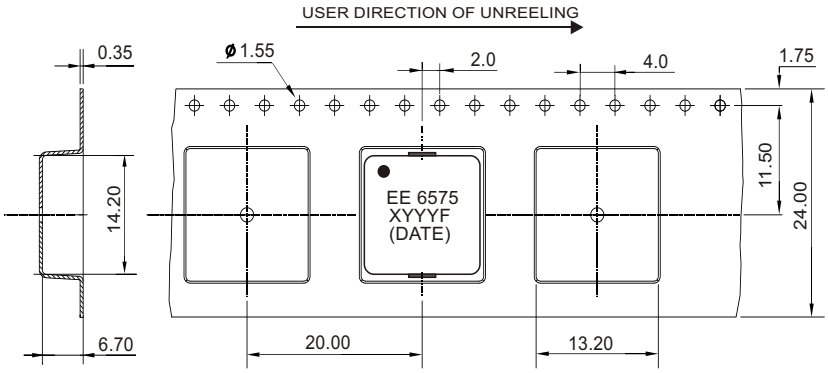
6. All dimensions are specified in inches / mm with higher precedence in mm.
7. Unless otherwise specified, all tolerances are ±.010 / 0.25.

Weight (in gram)	:	3.5 typ.
Tape & Reel	:	350 / reel

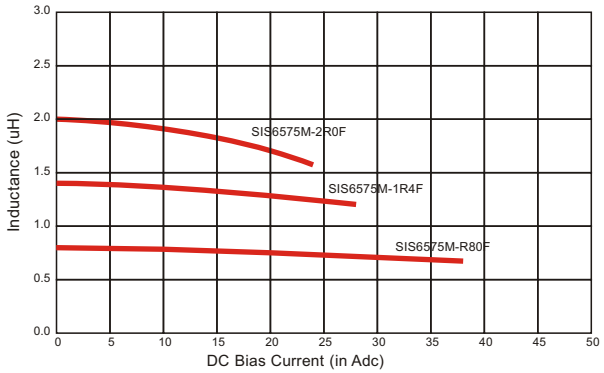
SCHEMATIC



PACKAGING



Inductance vs DC Bias Curves



Typical Inductance versus DC Bias Current,
measured at 25deg.C

FOR MORE INFORMATION, PLEASE CONTACT

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