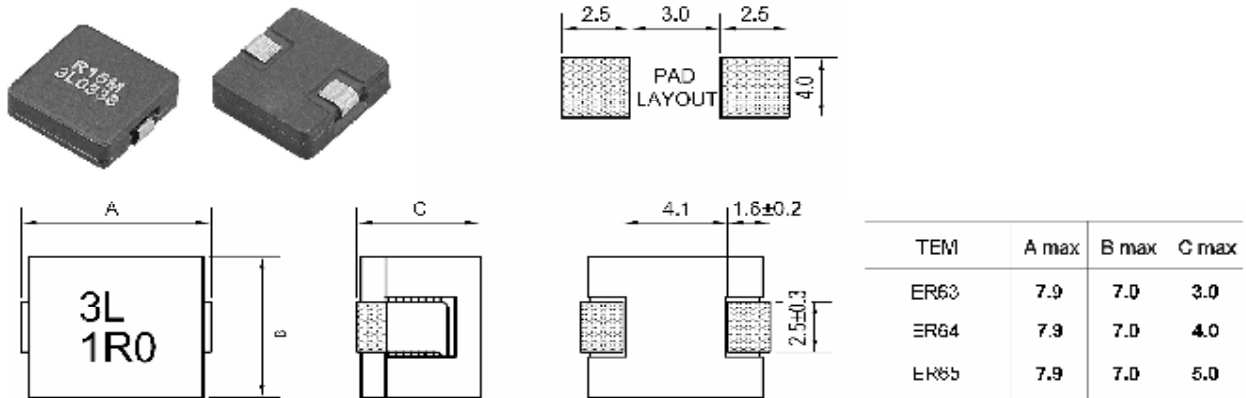


**Shape and Size : (Dimensions in mm)**

**Features :**

- Super flux core materials.
- 155 °C maximum total temperature operation.
- Small size.
- High current.
- Frequency range up to 2MHz.

**Ordering Information :**
**SMT ER65 - 1R0 M**

- (1) (2) (3) (4)
- (1)Type : **Surface Mountable Type** .
- (2)Style : Flat wire with **ER** core
- (3)Inductance : **1R0** for **1.0uH**.
- (4)Inductance tolerance : "**M**" : ±20%;

**Characteristics :**

- I sat: The current when the inductance becomes 10% (or 15%) lower than its initial value. (Ta=20°C)
- I rms: The current when temperature of coil increases up to Max. ΔT=40°C. (Ta=20°C)
- Operating temperature : -40 °C to 155 °C.

**Applications:**

- Computer and portable power devices
- Energy storage applications
- DC/DC converters,
- Input – output filter application

**Test equipments and test setup:**

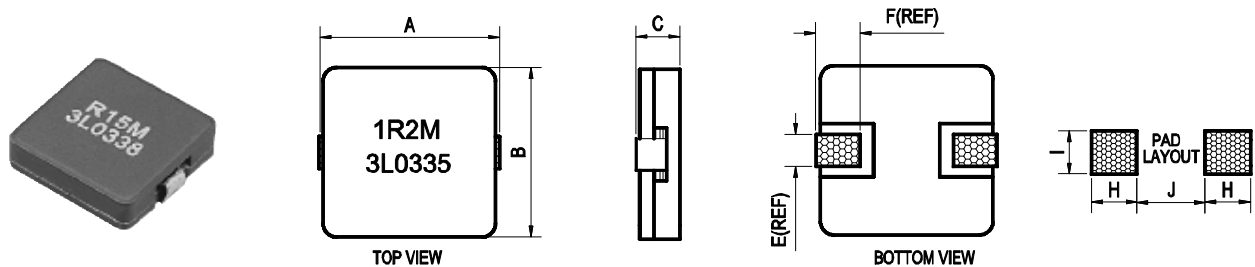
L: Agilent 4284A Precision LCR meter @100kHz 0.1V.

DCR : Milli-ohm meter.

- Electrical specifications at 25°C.

Part No.	L (uH) ±20%	DCR (mΩ) Max.	I sat L Drop 10% (A) Typ.	I sat L Drop 15% (A) Typ.	I rms (A) Max.	H (mm) Max.
SMTER63 - R10M	0.10	1.2	22.0	32.0	19.0	3.0
SMTER64 - R22M	0.22	1.8	16.0	24.0	15.0	4.0
SMTER64 - R47M	0.47	2.5	11.0	16.0	13.0	4.0
SMTER65 - R68M	0.68	3.2	10.0	14.0	12.0	5.0
SMTER65 - 1R0M	1.00	4.0	8.5	11.0	11.0	5.0
SMTER65 - 1R5M	1.50	4.5	7.0	9.0	10.0	5.0

**Shape and Size : (Dimensions in mm)**



ITEM	A(max)	B(max)	C(max)	E	F	H	I	J
SMTER134	13.50	13.10	4.00	2.40	3.00	4.50	4.20	5.00

**Features :**

- Big current (40A).
- Footprint compatible with most standard
- Lower temperature rise at big current
- Low profile, low DCR.
- Available on tape and reel for auto surface mounting.

**Ordering Information :**

**SMT ER134 - 1R2 M**

(1) (2) (3) (4)

(1)Type : **Surface Mountable Type** .

(2)Style : **ER** core with **134** is size.

(3)Inductance : **1R2** for **1.2uH**.

(4)Inductance tolerance :

"N":±30% "M": ±20%;

**Inductance & rated current and DCR ranges :**

- SMTER134-R25N 0.25uH @DC40A, DCR:1.0mΩMAX.
- SMTER134-R60N 0.6uH @DC30A, DCR:2.5mΩMAX.
- SMTER134-1R2M 1.2uH @DC22A, DCR:3.4mΩMAX.
- SMTER134-1R8M 1.8uH @DC12A, DCR:12mΩMAX.
- SMTER134-2R7M 2.7uH @DC10A, DCR:14mΩMAX.

**Characteristics :**

- Rated DC Current: It is either the inductance is 20% ("N" is 30%) lower than its initial value in D.C. saturation characteristics or temperature raise becomes  $\Delta T=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ), whichever is lower.
- Operating temperature:-40°C to 85°C

**Applications:**

- Notebook /Desktop/server applications
- Battery Power equipment
- DC/DC converters,
- Power supplier, etc

- Test equipments:
- L : Agilent 4284A LCR meter @100KHz ,100mV
- DCR : Milli-ohm meter.
- Electrical specifications at 25°C.