

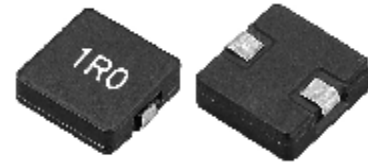


## SMTER63/64/65 SERIES

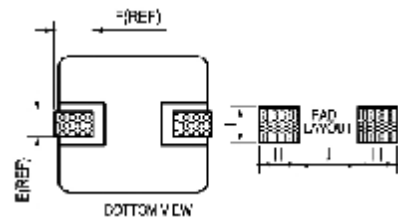
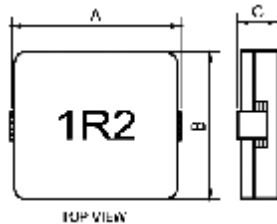
### SMT FLAT WIRE COLLS

#### Applications :

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



#### Shape and Dimensions (Dimensions are in mm)



Item	A Max.	B Max.	C Max.
ER63	7.9	7.0	3.0
ER64	7.9	7.0	4.0
ER65	7.9	7.0	5.0

Item	E	F	H	I	J
ER63	2.5±0.3	1.6±0.2	2.5	4.0	3.0
ER64	2.5±0.3	1.6±0.2	2.5	4.0	3.0
ER65	2.5±0.3	1.6±0.2	2.5	4.0	3.0

#### Features :

- Super flux core materials.
- High current.
- Low DCR
- Frequency range up to 2MHz.

#### Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% (or 15%) lower than its initial value.(Ta=20°C).
- Temperature Rise Current( Irms): The current when temperature of coil increase up to max.  $\Delta T=40^{\circ}\text{C}.$ (Ta=20°C).
- Operating temperature : -40°C to 125°C.

#### Product identification :

##### 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%.

#### Test equipments :

- Inductance measured at 0A<sub>dc</sub> on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- 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

\* Due to the limited space, the catalogue shows the typical specifications only. For more specific details ( characteristics graph, reliability, and others), kindly invite you to access 3L official website [www.3lcoil.com](http://www.3lcoil.com) for better known.