

TCSMD-PI Series DATA

Assembled High current Low DCR SMD Inductor



High Power Low DCR Inductor Applications:

AI Server / IPC Power ,DC/DC converter for CPU

NAS ,GPU(Graphics cards),LCD displays, HDDs, etc..

Battery power systems

VRM(Voltage Regulator Module) for server

Notebook regulators



Mechanical Dimensions: Unit:mm



FIG. A

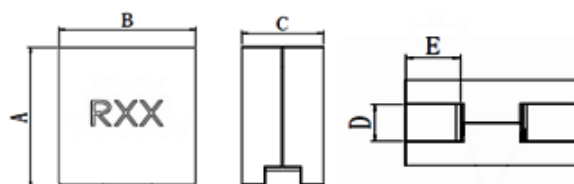


FIG. B

Item	A	B	C	D	E	FIG.
TCSMD-PI040404	4.0Max	4.0Max	4.0Max	1.4Ref.	0.9Ref.	A
TCSMD-PI050506	5.0Max	5.0Max	6.0Max	1.4Ref.	0.9Ref.	A
TCSMD-PI070705	7.0Max	6.8Max	5.0Max	2.5Ref.	1.5Ref.	A
TCSMD-PI090608	9.6Max	6.4Max	8.0Max	2.14Ref.	2.3Ref.	A
TCSMD-PI100612	10.0Max	12.0Max	6.0Max	2.4±0.3	3.0±0.4	B
TCSMD-PI100709	10.0Max	7.0Max	9.0Max	2.7Ref.	2.5Ref.	A
TCSMD-PI100808	10.0Max	8.0Max	8.0Max	2.25Typ.	2.2Typ.	A
TCSMD-PI100875	10.2±0.2	8.0Max	7.3±0.2	2.2±0.2	2.54±0.5	A
TCSMD-PI121109	12.0Max	11.5Max	9.0Max	2.18Ref.	3.2Ref.	A

Product Identification :

TCSMD - PI040404 - L_{0A}

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

(1) Selmag Product Symbol

(2) Product Series

(3) Dimensions Size (040404 : length=4.0mm width=4.0mm , High=4.0mm)

(4) Inductance L_{0A} @ Test Condition : 100kHz ,1.0 Vrms.

Electrical Specifications @25℃:

High performance (Isat) realized by metal dust core.

Low loss realized with low DCR

Magnetically Shielded.

Operating Temperature : -40℃ to 125℃.

* Irms: DC current for an approximate temperature rise of 40 °C without core loss

* Isat : Peak current for approximately 20% rolloff @ +25 °

* DCR: Direct current resistance @ +25 °C.

*Temperature Rise Current(Irms) : The current will causes the coil temperature rised approximately ΔT=40℃

Note *:See the Specification detail.