

EMC Components

SNC Series

Differential Mode Choke Coils for Signal Line and DC Power Line

SMD

FEATURES

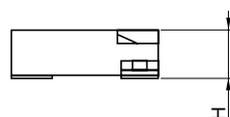
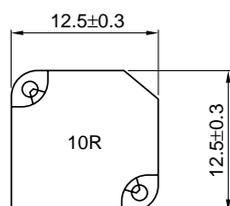
- SMD type power choke coils in which low loss amorphous alloy are used.
- SNC series are suitable for choke coils for DC to DC converters required high efficiency and used in battery-driven equipment such as notebook PC.
- Very low leakage magnetic flux achieved by its gapless structure.
- High power type SNC12560 type(H6mm) and low profile type SNC12550(H5mm) are available.
- Suitability for power lines with direct current of 5 to 10A.

APPLICATIONS

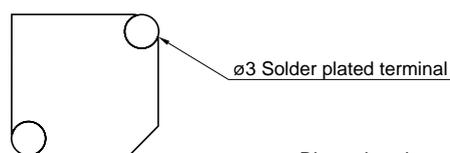
Smoothing choke coils for DC to DC converters

Set applications: Notebook PCs, desk-top PCs, word processors, switches

SHAPES AND DIMENSIONS

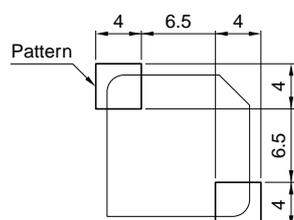


Type	H max.	Weight(g)
SNC12550	5	2
SNC12560	6	2.5



Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm



PRODUCT IDENTIFICATION

SNC	125	60	6R8	M
(1)	(2)	(3)	(4)	(5)

(1) Series name	(4) Rated inductance value
(2) L, W dimensions	6R8: 6.8μH
125: 12.5mm	(5) Inductance tolerance
(3) H dimension	M: ±20%
60: 6.0mm	

TEMPERATURE AND HUMIDITY RANGES

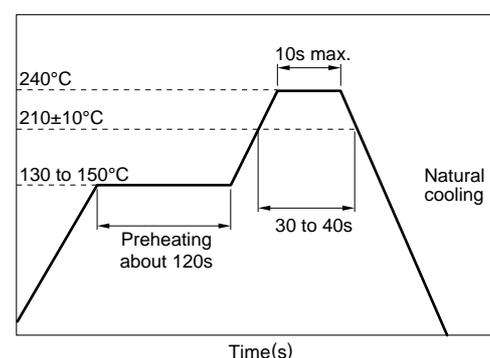
Temperature range	Operating	-40 to +120°C [Including self-temperature rise]
	Storage	-40 to +120°C
Humidity range	Operating	0 to 95%RH [However, maximum wet-bulb temperature is 38°C]
	Storage	0 to 95%RH [However, maximum wet-bulb temperature is 38°C]

PACKAGING STYLE AND QUANTITIES

Packaging style	Type	Quantity
Taping	SNC12550	500pieces/reel
	SNC12560	500pieces/reel

RECOMMENDED SOLDERING CONDITIONS

REFLOW SOLDERINGS



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ELECTRICAL CHARACTERISTICS

SNC12550 TYPE

Part No.	Rated current(A)	Inductance(μ H)	DC resistance(m Ω)max.	Temperature rise* Δ T(degree)	Marking
SNC12550-10RM5	5	10 \pm 20%	18	37	10S
SNC12550-6R8M6	6	6.8 \pm 20%	15	35	6S8
SNC12550-4R7M7	7	4.7 \pm 20%	10	34	4S7
SNC12550-2R2M10	10	2.2 \pm 20%	5	39	2S2

* Δ T is typical value when rated current is imposed on coils for 2 hours.

SNC12650 TYPE

Part No.	Rated current(A)	Inductance(μ H)	DC resistance(m Ω)max.	Temperature rise* Δ T(degree)	Marking
SNC12650-10RM5	5	10 \pm 20%	14	24	10R
SNC12650-6R8M6	6	6.8 \pm 20%	12	30	6R8
SNC12650-4R7M7	7	4.7 \pm 20%	8	29	4R7
SNC12650-2R2M10	10	2.2 \pm 20%	4.4	34	2R2

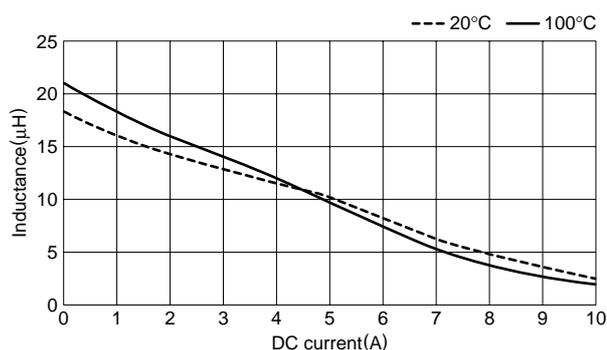
* Δ T is typical value when rated current is imposed on coils for 2 hours.

TYPICAL ELECTRICAL CHARACTERISTICS

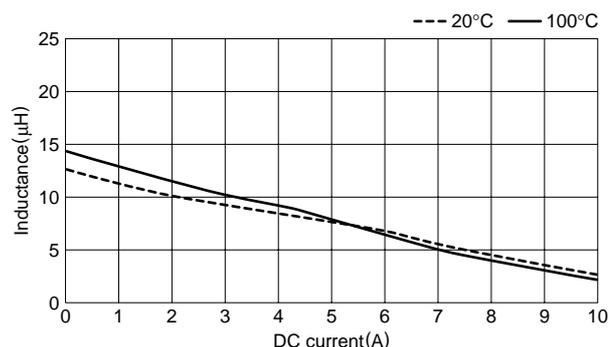
INDUCTANCE CHANGE vs. DC SUPER POSITION CHARACTERISTICS (Measurement conditions: 100kHz, 0.05V)

SNC12550 TYPE

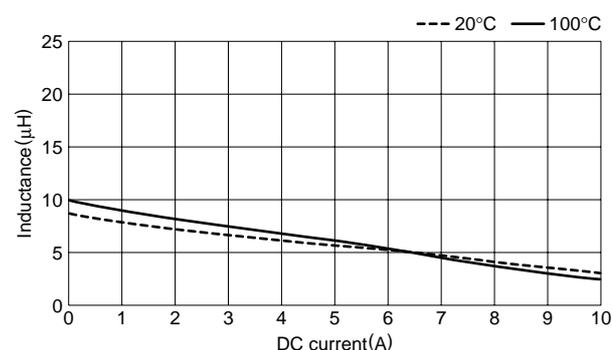
SNC12550-10RM5



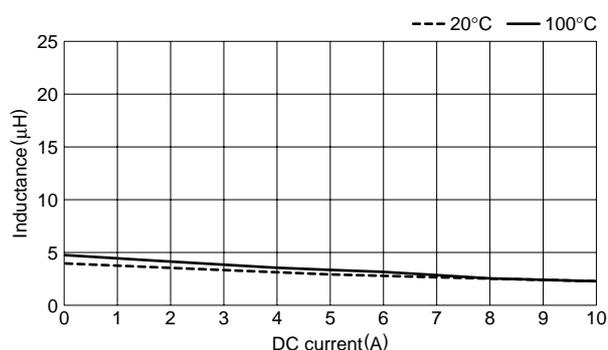
SNC12550-6R8M6



SNC12550-4R7M7



SNC12550-2R2M10



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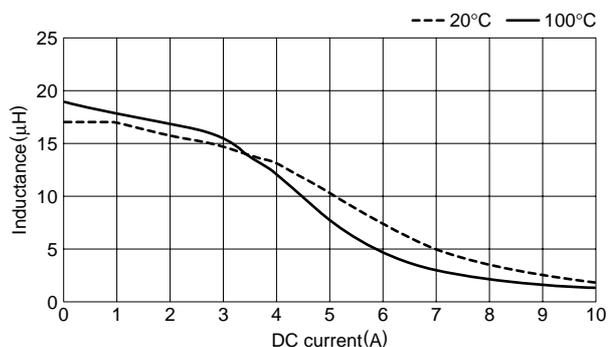
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TYPICAL ELECTRICAL CHARACTERISTICS

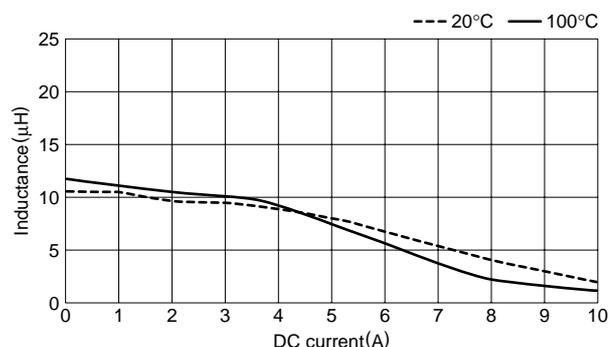
INDUCTANCE CHANGE vs. DC SUPER POSITION CHARACTERISTICS (Measurement conditions: 100kHz, 0.05V)

SNC12560 TYPE

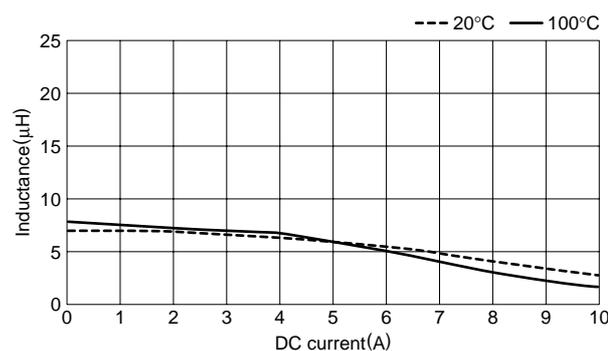
SNC12560-10RM5



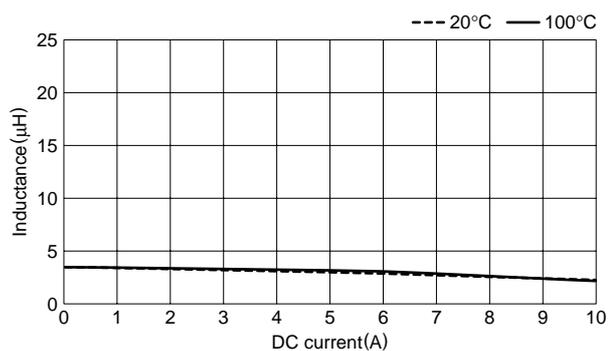
SNC12560-6R8M6



SNC12560-4R7M7



SNC12560-2R2M10



CIRCUIT EXAMPLE

