

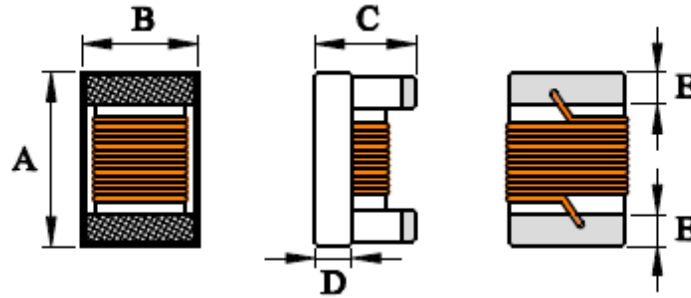
WHI2520C Series Specification

SMD Wire Wound Chip Inductor

APPLICATION

Smart phones, tablet terminals, tuners, LCD-TVs, PDP-TVs, audio equipment, computers, signal processing for modules etc.

1. Shapes and Dimensions



Unit: mm

Type	A	B	C	D	E
WHI2520C	2.92 (Max.)	2.79 (Max.)	2.20 (Max.)	1.20 (Ref.)	0.55±0.1

2. Ordering / Part Number Information

WHI 2520 C - 10N □
 (1) (2) (3) (4) (5)

(1) Product Group

(2) Dimension Code

(3) Type Code

(4) Inductance Code : N means decimal point

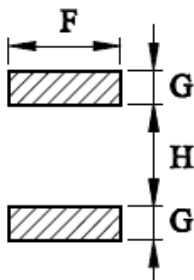
Ex : 10N → 10.0nH

(5) Inductance Tolerance

G=±2%

3. Recommended Soldering Condition

3-1. Recommended Land Pattern

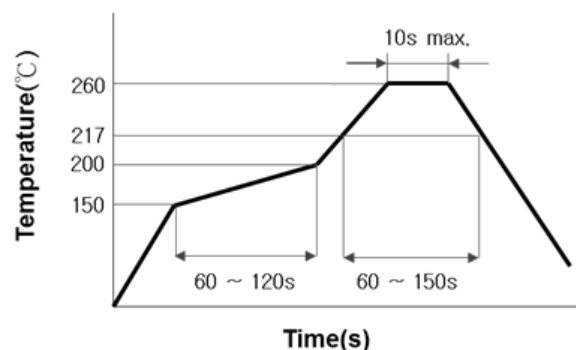


Unit : mm

Symbol	Dimension
F	2.54
G	0.90
H	1.52

The Recommended Land pattern is for reference only.
 Please consult your manufacturing partners to ensure your company's PCB design guidelines are met

3-2. Recommended Soldering Profile



4. Electrical Characteristics

4-1. Electrical Specification

Part Number	Inductance (L)	L Test Frequency	Q Min.	Q Test Frequency	DC Resistance (R _{DC}) Max.	Rated Current (I _{DC}) Max.	Self-Resonant Frequency (SRF) Min.
WHI2520C-10NG	10nH±2%	50MHz	50	500MHz	0.08Ω	1000mA	4100MHz
WHI2520C-12NG	12nH±2%	50MHz	50	500MHz	0.09Ω	1000mA	3300MHz
WHI2520C-15NG	15nH±2%	50MHz	50	500MHz	0.18Ω	1000mA	2500MHz
WHI2520C-18NG	18nH±2%	50MHz	50	350MHz	0.11Ω	1000mA	2500MHz
WHI2520C-22NG	22nH±2%	50MHz	55	350MHz	0.12Ω	1000mA	2400MHz
WHI2520C-27NG	27nH±2%	50MHz	55	350MHz	0.13Ω	1000mA	1600MHz
WHI2520C-33NG	33nH±2%	50MHz	60	350MHz	0.14Ω	1000mA	1600MHz
WHI2520C-39NG	39nH±2%	50MHz	60	350MHz	0.15Ω	1000mA	1500MHz
WHI2520C-47NG	47nH±2%	50MHz	65	350MHz	0.16Ω	1000mA	1500MHz
WHI2520C-56NG	56nH±2%	50MHz	65	350MHz	0.18Ω	1000mA	1300MHz
WHI2520C-68NG	68nH±2%	50MHz	65	350MHz	0.20Ω	1000mA	1300MHz
WHI2520C-82NG	82nH±2%	50MHz	60	350MHz	0.22Ω	1000mA	1000MHz
WHI2520C-R10G	100nH±2%	25MHz	60	350MHz	0.56Ω	650mA	1000MHz
WHI2520C-R12G	120nH±2%	25MHz	60	350MHz	0.63Ω	650mA	950MHz
WHI2520C-R15G	150nH±2%	25MHz	45	100MHz	0.70Ω	580mA	850MHz
WHI2520C-R18G	180nH±2%	25MHz	45	100MHz	0.77Ω	620mA	750MHz
WHI2520C-R22G	220nH±2%	25MHz	45	100MHz	0.84Ω	500mA	700MHz
WHI2520C-R27G	270nH±2%	25MHz	45	100MHz	0.91Ω	500mA	600MHz
WHI2520C-R33G	330nH±2%	25MHz	45	100MHz	1.05Ω	450mA	570MHz
WHI2520C-R39G	390nH±2%	25MHz	45	100MHz	1.12Ω	470mA	500MHz
WHI2520C-R47G	470nH±2%	25MHz	45	100MHz	1.19Ω	470mA	450MHz
WHI2520C-R56G	560nH±2%	25MHz	45	100MHz	1.33Ω	400mA	415MHz
WHI2520C-R62G	620nH±2%	25MHz	45	100MHz	1.40Ω	300mA	375MHz
WHI2520C-R68G	680nH±2%	25MHz	45	100MHz	1.47Ω	400mA	375MHz
WHI2520C-R75G	750nH±2%	25MHz	45	100MHz	1.54Ω	360mA	360MHz
WHI2520C-R82G	820nH±2%	25MHz	45	100MHz	1.61Ω	400mA	350MHz
WHI2520C-R91G	910nH±2%	25MHz	35	50MHz	1.68Ω	380mA	320MHz
WHI2520C-1R0G	1000nH±2%	25MHz	35	50MHz	1.75Ω	370mA	290MHz
WHI2520C-1R2G	1200nH±2%	7.9MHz	35	50MHz	2.00Ω	310mA	250MHz
WHI2520C-1R5G	1500nH±2%	7.9MHz	28	50MHz	2.23Ω	330mA	200MHz
WHI2520C-1R8G	1800nH±2%	7.9MHz	28	50MHz	2.60Ω	300mA	160MHz
WHI2520C-2R2G	2200nH±2%	7.9MHz	28	50MHz	2.80Ω	280mA	160MHz
WHI2520C-2R7G	2700nH±2%	7.9MHz	22	25MHz	3.20Ω	290mA	140MHz
WHI2520C-3R3G	3300nH±2%	7.9MHz	22	25MHz	3.40Ω	290mA	110MHz
WHI2520C-4R7G	4700nH±2%	7.9MHz	18	7.9MHz	4.00Ω	200mA	32MHz

Note1. Rated current for 20°C rise above 25°C ambient.

Note2. L/Q OSC test level at 100mV.

4-2. Operating Temperature Range

-40°C to +125°C (Including self - temperature rise)

4-3. Storage Temperature Range

Store this product under the condition of 5°C to 40°C, 20% to 70%RH and use within 6 months

5. Packaging Information

Standard Quantity for Packaging: 2,000 pcs/Reel

Note

1. Please make sure that your product is has been evaluated and confirmed against your specifications when our product is mounted to your product.
2. Do not knock nor drop.
3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)

Reference