

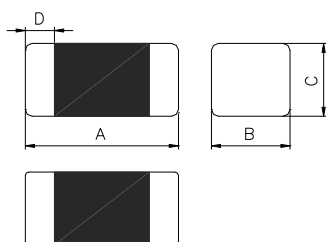
1. Features

- 2.0x1.6 mm and 1 mm in height (very compact size): CAE and fine printing technology made this compact size possible
- Stable minimum DC resistance in the class.
- High speed mounting: Using SMT mounter makes less than a second mounting possible.
- Excellent mounting strength by SMD chip making.
- Reduced noise over 2/3 of coil inductor by optimal design of CAD
Completely lead-free product and support lead-free solder.
- Operating Temperature: -55~+105°C (Including self-temperature rise)



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2. Dimensions



Chip Size				
Series	A(mm)	B(mm)	C(mm)	D(mm)
21610	2.0±0.2	1.6±0.2	1.0 max.	0.5±0.3

3. Part Numbering

MCP **21610** **U** - **2R2** **M** **A**

A B C D E F

A: Series

B: Dimension

C: Material

D: Inductance

E: Inductance Tolerance

F: Category Code

2R2=2.20uH

M=±20%

4. Specification

Tai-Tech Part Number	Inductance(uH)	Test Frequency (Hz)	Rated Current (mA) max.	DCR(Ω)	
				max.	typ.
MCP21610U-R47MA	0.47±20%	1M / 60mV	1600	0.075	0.06
MCP21610U-1R0MA	1.00±20%	1M / 60mV	1300	0.12	0.09
MCP21610U-1R5MA	1.50±20%	1M / 60mV	1200	0.13	0.10
MCP21610U-2R2MA	2.20±20%	1M / 60mV	1200	0.14	0.11
MCP21610U-3R3MA	3.30±20%	1M / 60mV	1100	0.16	0.13
MCP21610U-4R7MA	4.70±20%	1M / 60mV	900	0.20	0.16

● Rated current: based on temperature rise test

● In compliance with EIA 595

Typical Inductance v.s. Frequency Curve

