

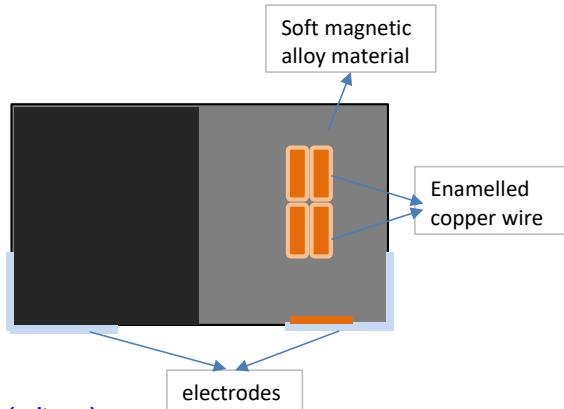
Proposal of Power Inductor for AS3A2016101R5MT

Approved By	Checked By	Prepared By
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21 April 2024	21 April 2024	21 April 2024

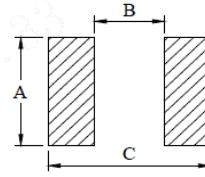
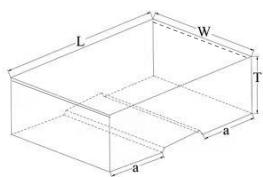
Note:

- ※ This is a preliminary proposal and the final product P/N, Structure, Shape and Dimensions, Electrical Characteristics may be changed. You are requested to confirm and approve our spec.
- ※ This proposal applies to the AS3A2016101R5MT of dry pressure type wire wound power inductor for automotive electronics based on AEC-Q200 G0.

1. Structure and Material



2. Shape and Dimensions (unit:mm)



Shape and Dimensions

Recommended PCB pattern

Parameters	L	W	T	a	A	B	C
Unit	mm						
AS3A2016101R5MT	2.0±0.2	1.6±0.2	1.0max.	0.6±0.2	1.9ref.	0.9ref.	2.3ref.

3. Electrical Characteristics

Parameters	Inductance	Inductance Test Condition	DCR		Saturation Current		Heat Rating Current	
			Max.	Typ.	Max.	Typ.	Max.	Typ.
Unit	uH	/	mΩ		A		A	
AS3A2016101R5MT	1.5±20%	1MHz/1V	100.00	85.00	2.80	3.10	2.30	2.60

Note:

- ※ 1. Operating and storage temperature range (individual chip without packing): -55°C ~ +150°C (including self-heating).
- ※ 2. Saturation Current : DC current at which the inductance drops approximate 30% from its value without current.
- ※ 3. Heat Rating Current: DC current that causes an approximate ΔT of 40°C from 20°C ambient.