PRODUCT SPECIFICATION

DOCUMENT NO. ENS000134430				
DESCRIPTION	**DRAWN BY**	**DESIGNED BY**	**CHECKED BY**	**APPROVED BY**
AIP0630GX Series	Logan	Peter	Phil	Phil

Molding Type Power Choke

Scope

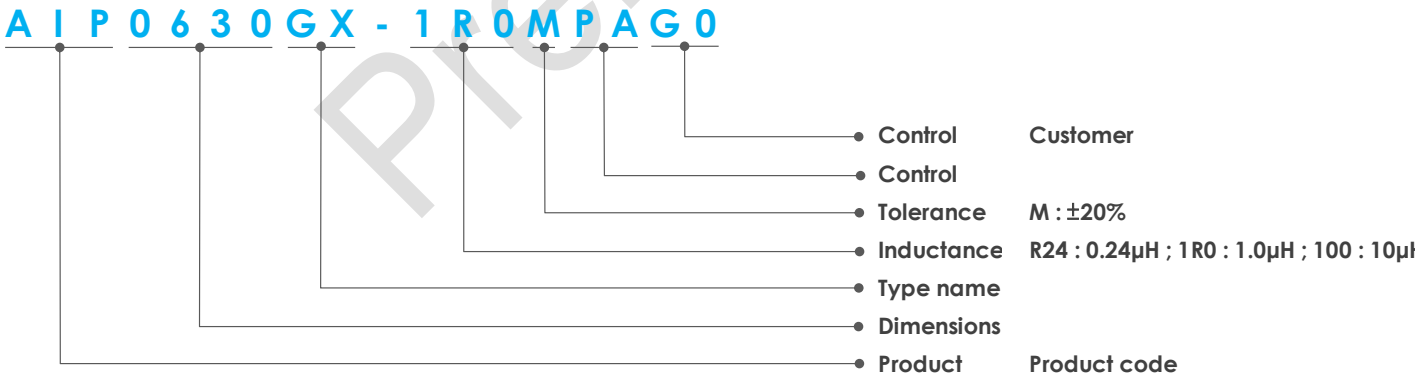
Features

- Thickness max. 3mm.
- Flux shielded structure.
- High saturation current realized by coil design and alloy powder.
- Low power loss and temperature rising realized by low DC Resistance.
- 100% Pb free meet RoHS standard.

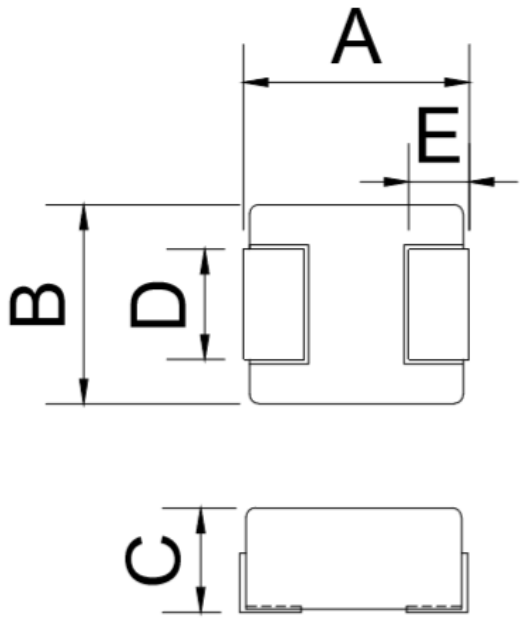
Applications

- Desktop / Notebook / Server
- DC to DC converter in low profile high current system such as CPU, VRM, V-core, VGA card…etc.

Explanation of Part Number

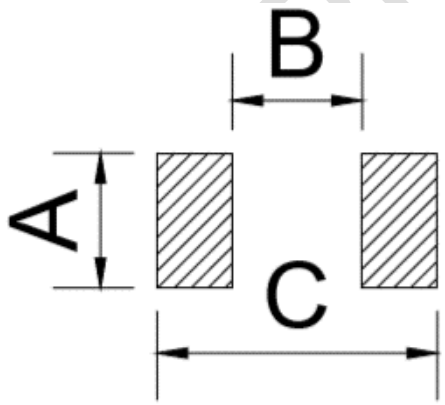


Dimensions



Code	Dimensions[mm]
A	6.7 ± 0.3
B	6.5 ± 0.3
C	3 max.
D	2.9 ± 0.5
E	1.6 ± 0.3

Recommended land pattern



Code	Dimensions[mm]
A	3.5
B	3.7
C	8.4

Specifications

PN	Li [μH]	Rdc [mΩ]		Isat [A]	Irms [A]	SRF [MHz]	Core loss [mW]		
	test @1mA	*DC resistance*		*Li drop 30%*	*Temp. rising 40°C*	*Resonance*	*steinmetz equation*		
	±20%	typ.	max.	typ.	typ.	typ.	k	x	y
AIP0630GX-1R0MPAG0	1.0	5.5	6.1	23	18	48	6.32980E-05	1.05308	2.22646
AIP0630GX-2R2MPAG0	2.2	12.7	14.0	16.0	10	32	1.77952E-04	1.04535	2.23232
AIP0630GX-3R3MPAG0	3.3	17.0	19.5	12.5	8.5	25	2.72076E-04	1.04835	2.25764

Notes

1. Test environment of all data is referenced to 25 °C ambient.
2. Test conditions: 1MHz, 1Vrms.
3. Isat : DC current (A) that will cause L to drop approximately 30 %.
4. Irms : DC current (A) that will cause an approximate ΔT of 40 °C(reference ambient temperature is 25°C).
5. Operating temperature range – 40 °C to + 150 °C.
6. The part temperature (ambient + temp rise) should not exceed 150 °C under worst case operating conditions.

Current graphs