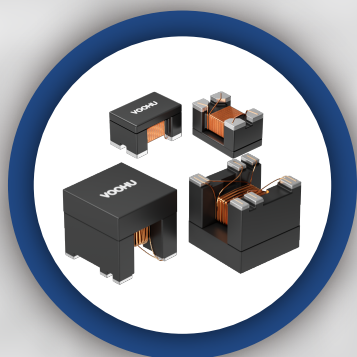


CHIP LAN系列选型手册

CHIP LAN Series Selection Manual



X'FMR+CMC



CAP+CMC

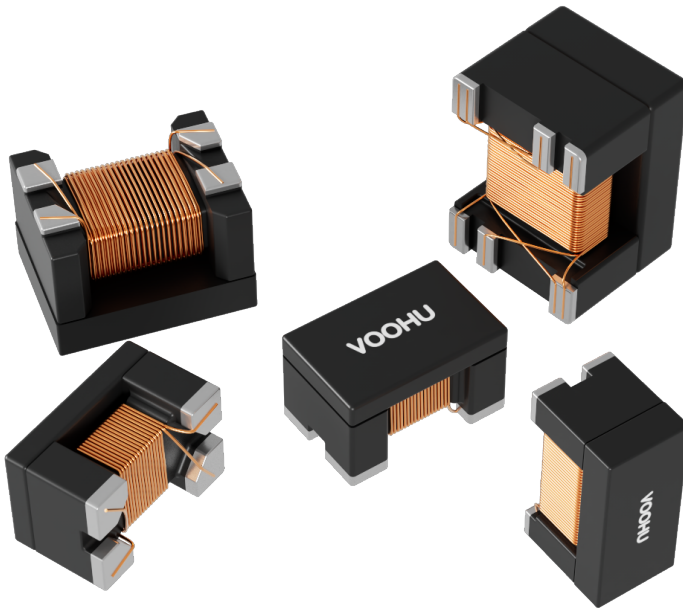
致力于成为世界一流的通信电子
“元器件供应商”、“方案解决商”、“互联网电商”

Committed to becoming a world-class communications electronics
"Component supplier", "solution provider", "high-quality Internet e-commerce"

苏州沃虎电子科技有限公司

Suzhou VOOHU Electronic Technology Co., Ltd.

沃虎® CHIP LAN 新型片式网络变压器



特性

- Compliant With Ethernet 10/100/1000 Base-T
- Compliant With Ethernet 2.5/5G and 10G Base-T
- 100 % Automatic Production
- Improved Return Loss and Crosstalk Properties
- Super Small Size
- Operating Temperature: -40°C To +105°C

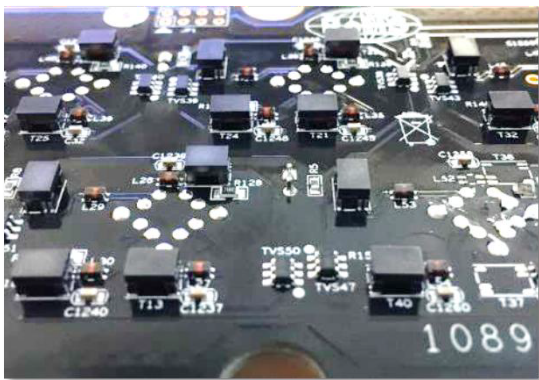
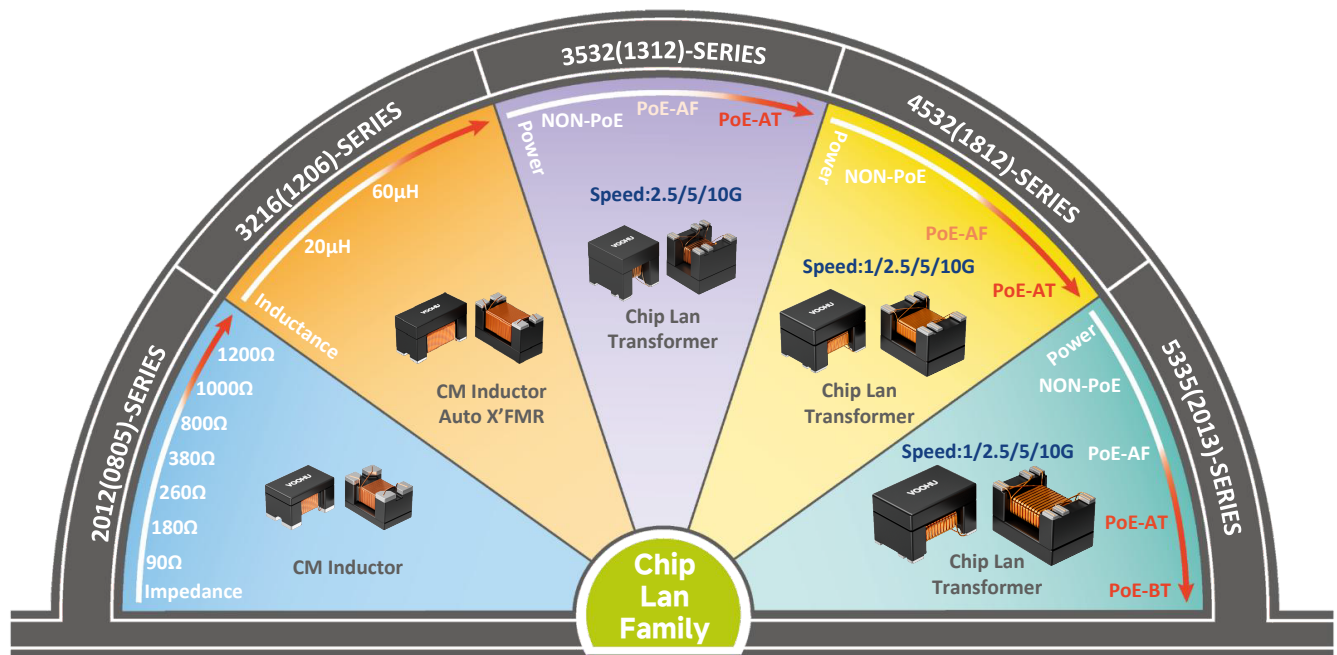
应用

- Router
- PON
- Ethernet Connector Module
- Other Consumer Terminal Netcom Equipment

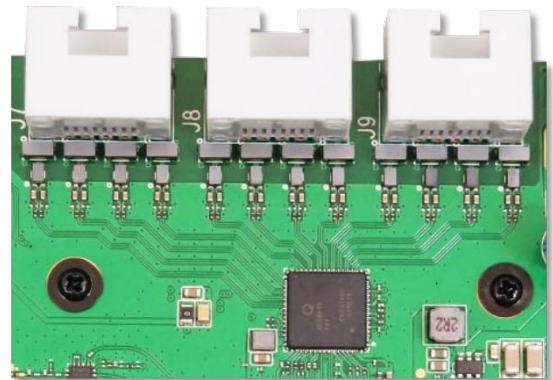
新型片式网络变压器采取H+I结构、全自动化生产模式，突破传统环形绕线变压器、电感设计方案，实现规模性、全流程自动化生产。产品符合欧盟RoHS2.0规范、可与全球主要PHY芯片品牌供货商的产品兼容。100/1000/2.5G/5G/10GBASE-T新型片式网络变压器符合IEEE802.3有线局域网的相关标准，其新型片式网络变压器小体积，高耐压，兼容宽温性能，低成本的产品优势，广泛应用于网络通信、消费电子等领域。

The New Chip Lan Transformer Uses H + I Structure And Fully Automated Production Mode, Breaking Through The Traditional Design Scheme Of Circular Wound Transformers And Inductors, And Achieving Mass Production And Full Process Automated Production. The Product Complies With The EU RoHS2.0 Specification And Is Compatible With Products From Major Global PHY Chip Brand Suppliers. The 100/1000/2.5G/5G/10GBASE-T New Chip Lan Transformer Meets The Relevant Standards Of IEEE802.3 Wired Local Area Networks. Small Size, High Voltage Resistance, Compatibility With Wide Temperature Performance, And Low-Cost Product Advantages Are Widely Used In Fields Such As Network Communication And Consumer Electronics.

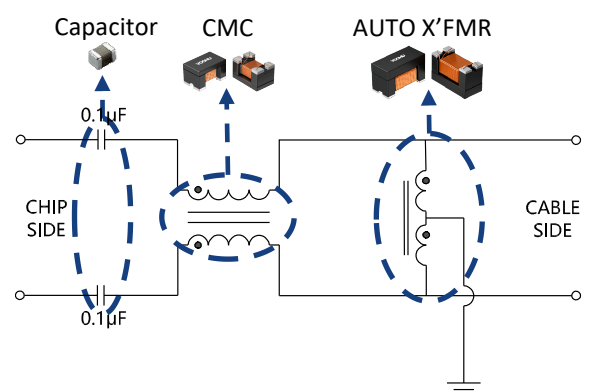
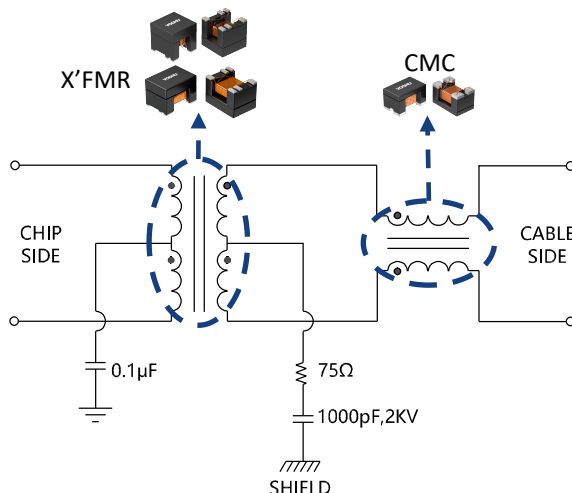
PRODUCT APPLICATION AND PRINCIPLE



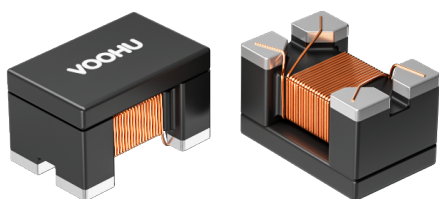
Inductive Chip LAN on Board



Capacitive Chip LAN on Board



2012(0805)SIZE COMMON CHIP INDUCTOR



特性

- Large Range of Common Mode Impedance to Fit With Signal
- And Noise Level
- Suppression of Common Mode Noise Without Attenuating The Signal
- High-Quality Product That Uses Auto Winding
- Available in 2012(0805) Size
- Operating Temperature: -40°C Up To +105°C

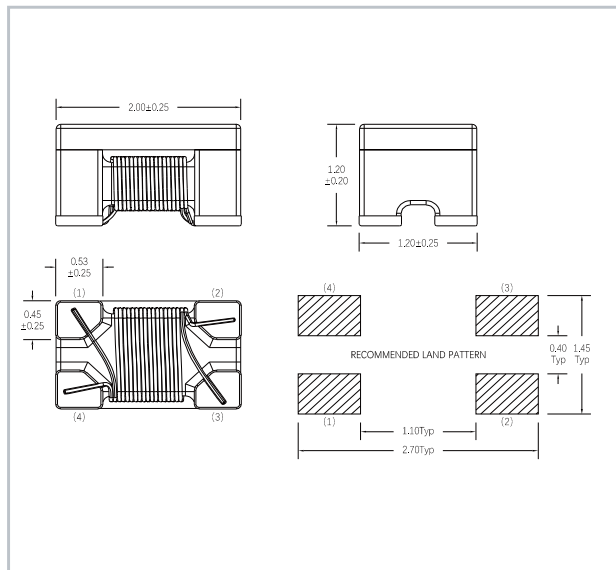
料号	Common Mode Impedance @100MHz (Ω Typ)	DC Resistance (Ω MAX)	Rated Voltage (VDC)	Rated Current (mA Max)	Withstanding Voltage (VDC)	Insulation Resistance (MΩ Min)
WHLC-2012A-900T0	90	0.35	50	300	125	10
WHLC-2012A-181T0	180	0.35	50	300	125	10
WHLC-2012A-261T0	260	0.40	50	300	125	10
WHLC-2012A-361T1	360	0.45	50	300	125	10
WHLC-2012A-381T0	380	0.45	50	300	125	10
WHLC-2012A-801T0	800	0.88	50	300	125	10
WHLC-2012A-102T0	1000	1.30	50	300	125	10
WHLC-2012A-122T0	1200	1.50	50	300	125	10

NOTES:

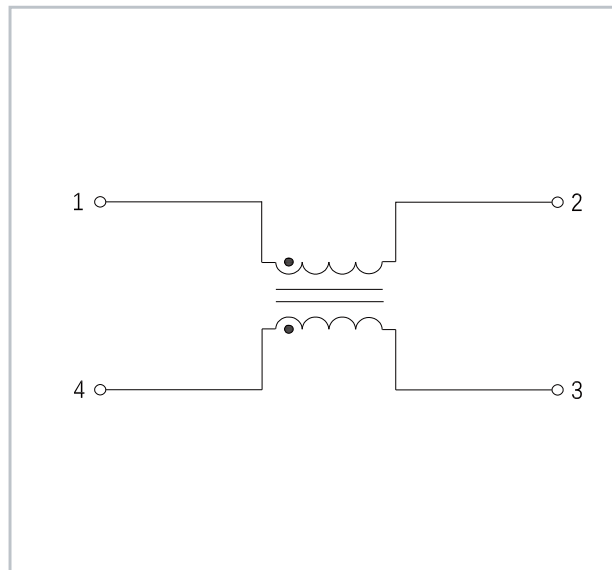
Electrical Specifications @ 25°C
All Information Is Reference Only. See Datasheet For Specific Information.

2012(0805)SIZE COMMON CHIP INDUCTOR

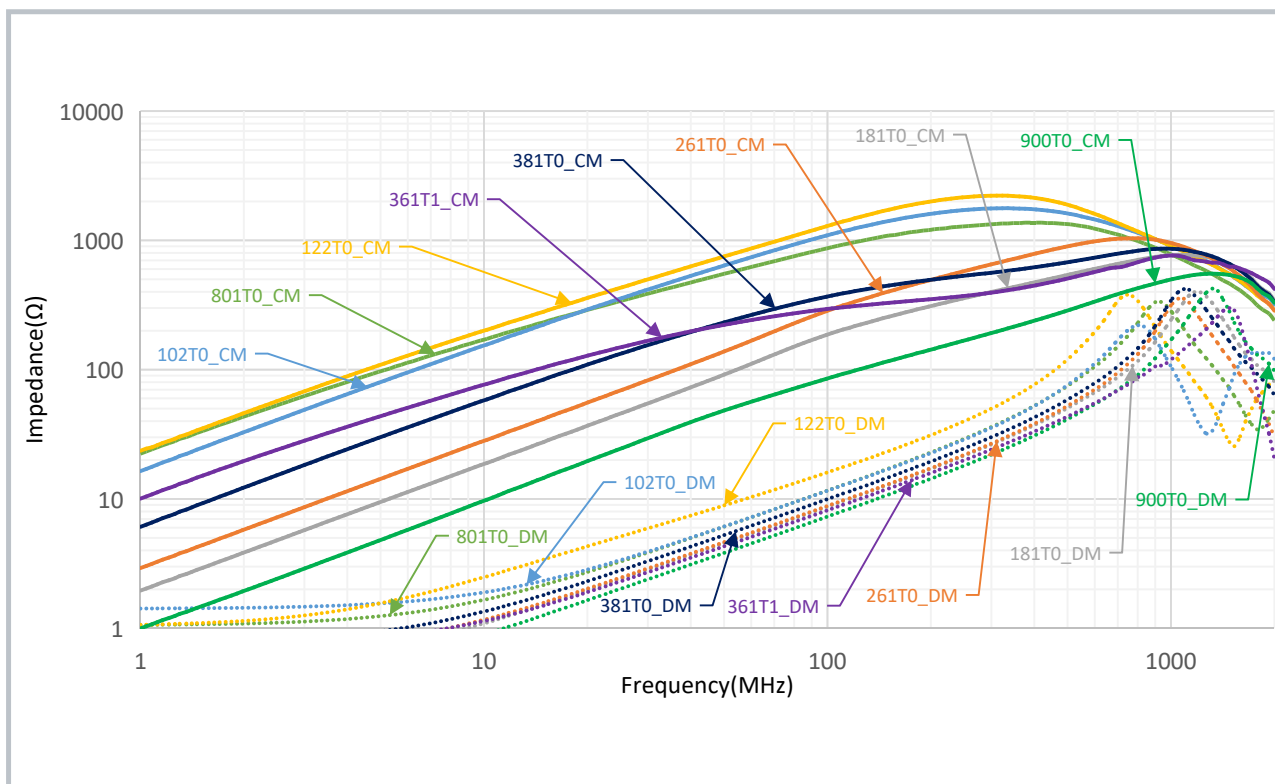
Dimensions: [mm]



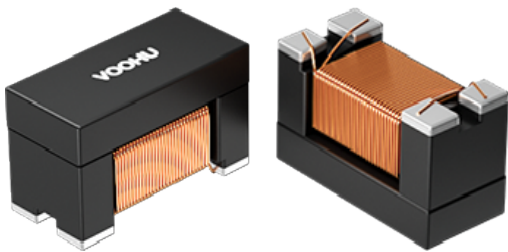
Schematic:



Impedance VS. Frequency



3216(1206)SIZE COMMON CHIP INDUCTOR



特性

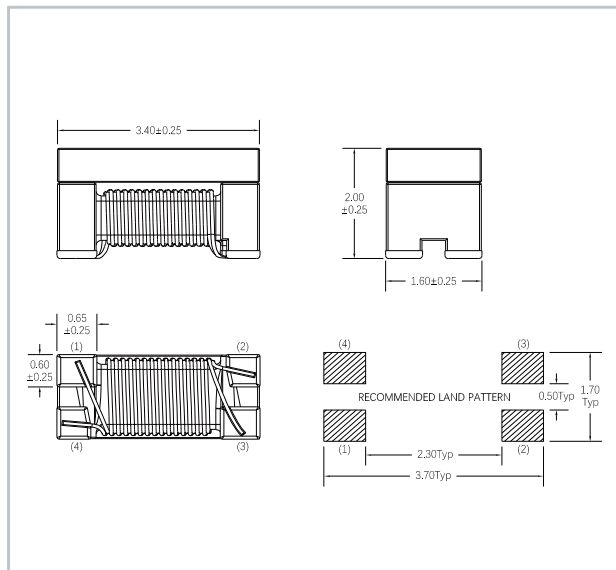
- Large Range of Common Mode Impedance to Fit With Signal And Noise Level
- Suppression of Common Mode Noise Without Attenuating The Signal
- High-Quality Product That Uses Auto Winding
- Available in 3216(1206) Size
- Operating Temperature: -40°C Up To +105°C

料号	Inductance 100KHz/0.1V (μH)Min	DC Resistance (Ω MAX)	Rated Current (mA Max)	Rated Volt (VDC)	Withstand Volt (VDC) MAX	Insulation Resistance (MΩ Min)
WHLC-3216A-550M0	55	1.50	200	50	125	10
WHLC-3216A-600M0	60	1.70	200	50	125	10

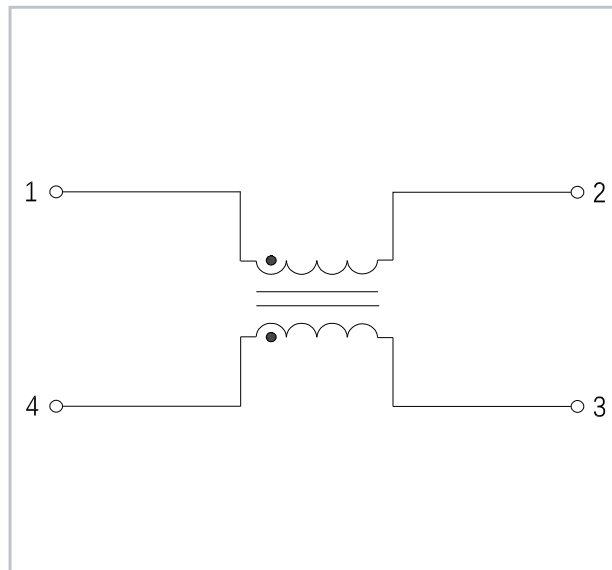
NOTES:
Electrical Specifications @ 25°C
All Information Is Reference Only. See Datasheet For Specific Information.

3216(1206)SIZE COMMON CHIP INDUCTOR

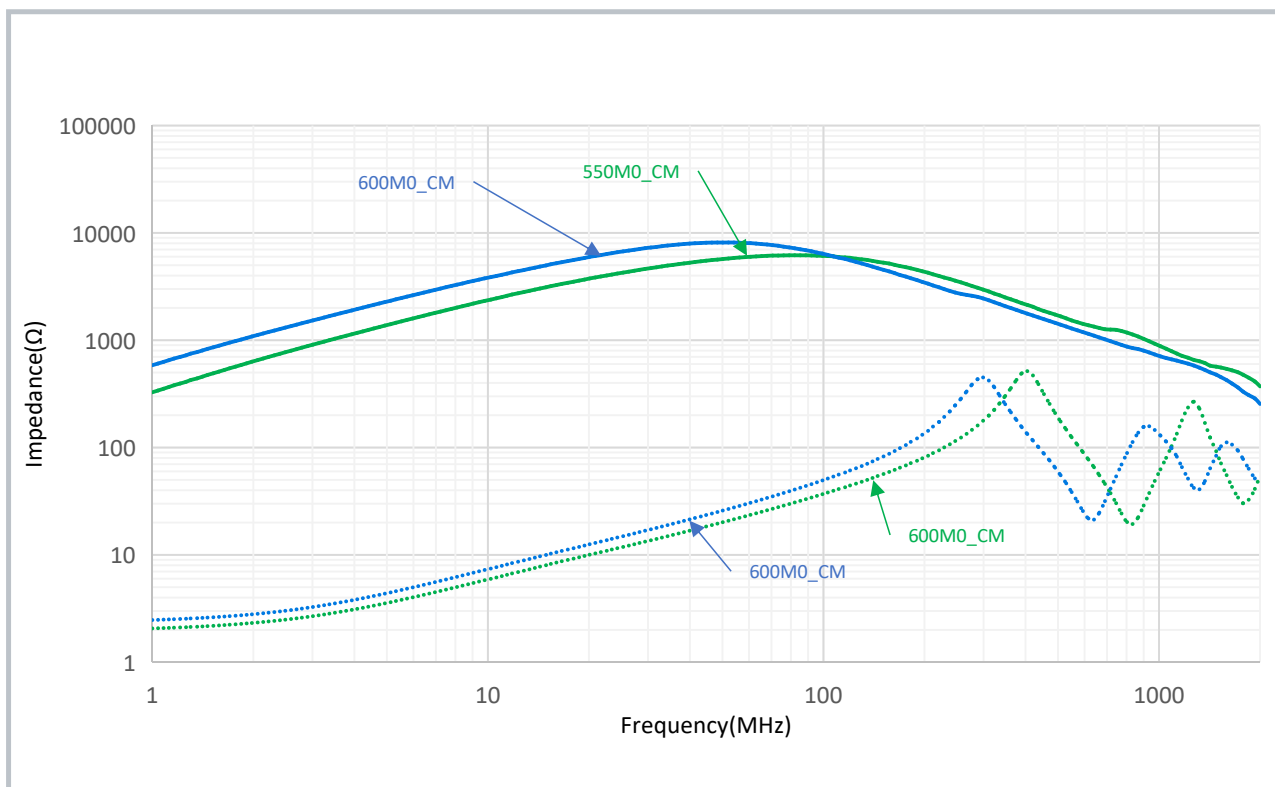
Dimensions: [mm]



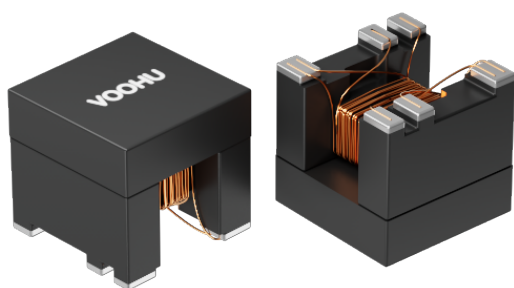
Schematic:



Impedance VS. Frequency



3532(1312)SIZE CHIP TRANSFORMER



特性

- Compliant With Ethernet 2.5/5/10GBase-T
- 100 % Automatic Production
- Improved Return Loss And Cross Talk Properties
- Super Small Size
- Available in 3532(1312) Size
- Operating Temperature: -40°C Up To +105°C

料号	Speed	OCL (μH)	DCR (Ω)	Insertion Loss (dB)		Return Loss (dB)		PoE Rating
		Min	Max	Max		Min		
		100KHz,0.1V		0.5-1MHz	1-125MHz	1-40MHz	40-100MHz	
WHLT-3532A-201MGN	1G	200 @8mA	3.00	-1.0	-0.2-0.002*f^1.4	-16	-10+20log(f/80)	NON-PoE

NOTES:

Electrical Specifications @ 25°C

All Information Is Reference Only. See Datasheet For Specific Information.

料号	Speed	OCL (μH)	DCR (Ω)	Insertion Loss (dB)		Return Loss (dB)		PoE Rating
		Min	Max	Max		Min		
		100KHz,0.1V		1-100MHz	100-250MHz	1-100MHz	100-250MHz	
WHLT-3532A-151MQF	2.5/5G	150 @8mA	3.00	-1.0	-2.0	-16	-16+10log(f/40)	PoE af

NOTES:

Electrical Specifications @ 25°C

All Information Is Reference Only. See Datasheet For Specific Information.

料号	Speed	OCL (μH)	DCR (Ω)	Insertion Loss (dB)				Return Loss (dB)					PoE Rating
		Min	Max	Max				Min					
		10KHz,0.1V		1-200 MHz	200-300 MHz	300-400 MHz	400-500 MHz	1-200 MHz	100-200 MHz	200-300 MHz	300-400 MHz	400-500 MHz	
WHLT-3532A-121MMF	10G	120 @10.5mA	2.00	-1.2	-1.5	-2.0	-3.0	-18.0	-16.0	-12.0	-10.0	-8.0	PoE af

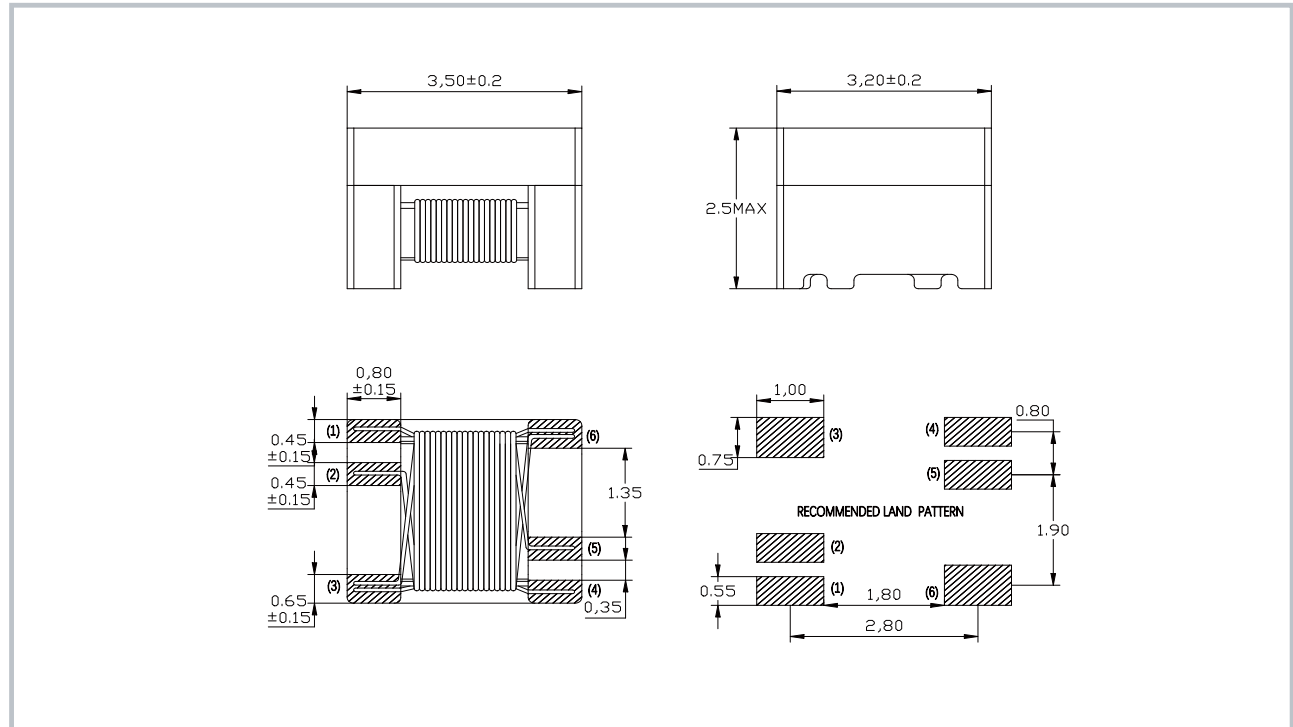
NOTES:

Electrical Specifications @ 25°C

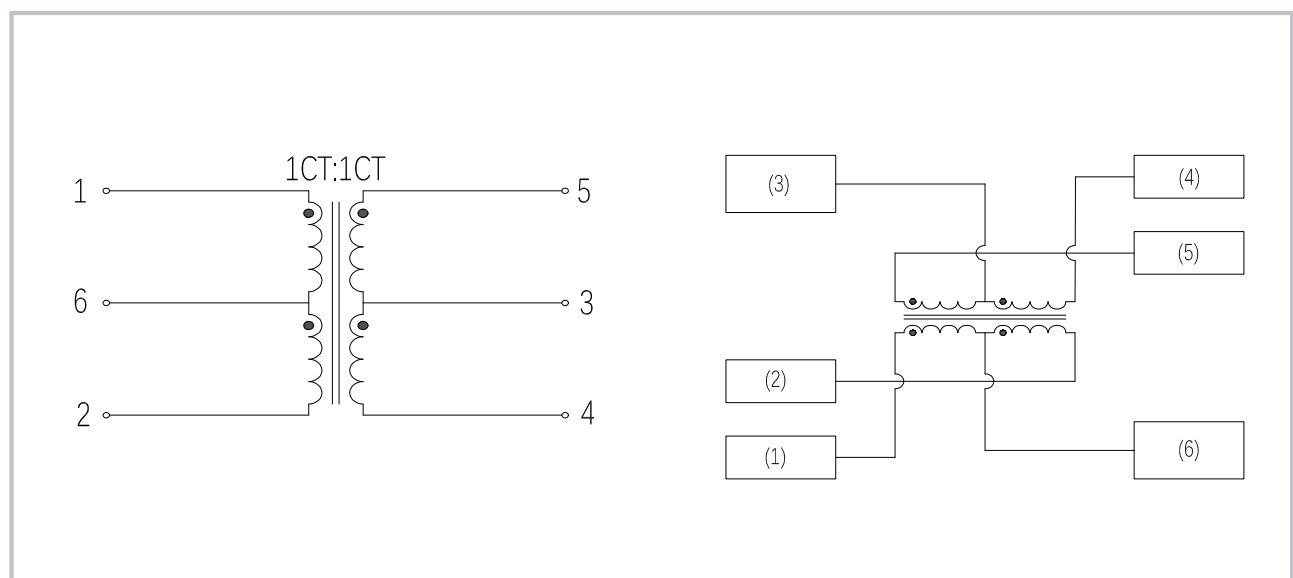
All Information Is Reference Only. See Datasheet For Specific Information.

3532(1312)SIZE CHIP TRANSFORMER

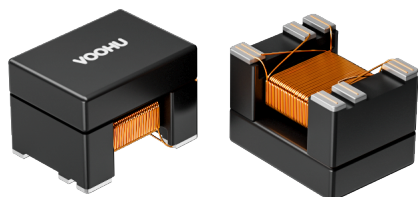
Mechanical(Unit:mm)



Schematics & Application



4532(1812)SIZE CHIP TRANSFORMER



特性

- Compliant With Ethernet 1/2.5/5/10GBase-T
- 100 % Automatic Production
- Improved Return Loss And Cross Talk Properties
- Super Small Size
- Available in 4532(1812) Size
- Operating Temperature: -40°C Up To +105°C

料号	Speed	OCL (μH)	DCR (Ω)	Insertion Loss (dB)		Return Loss (dB)		PoE Rating
		Min	Max	Max		Min		
		100KHz,0.1V		0.5-1MHz	1-125MHz	1-40MHz	40-100MHz	
WHLT-4532B-201MGF	1G	200 @10.5mA	3.00	-1.2	-0.2- 0.002*F^1.4	-16	-10+ 20LOG(F/80)	PoE af
WHLT-4532B-351MGF	1G	350 @10.5mA	6.00					PoE af
WHLT-4532B-121MGT	1G	120 @10.8mA	1.20					PoE at

料号	Speed	OCL (μH)	DCR (Ω)	Insertion Loss (dB)		Return Loss (dB)		PoE Rating
		Min	Max	Max		Min		
		100KHz,0.1V		1-100MHz	100-250MHz	1-100MHz	100-250MHz	
WHLT-4532B-151MQT	2.5/5G	150 @10.8mA	3.00	-1.0	-2.0	-16	-16+ 10LOG(F/40)	PoE at
WHLT-4532B-181MQT	2.5/5G	180 @15mA	3.00					PoE at

NOTES:

Electrical Specifications @ 25°C
All Information Is Reference Only. See Datasheet For Specific Information.

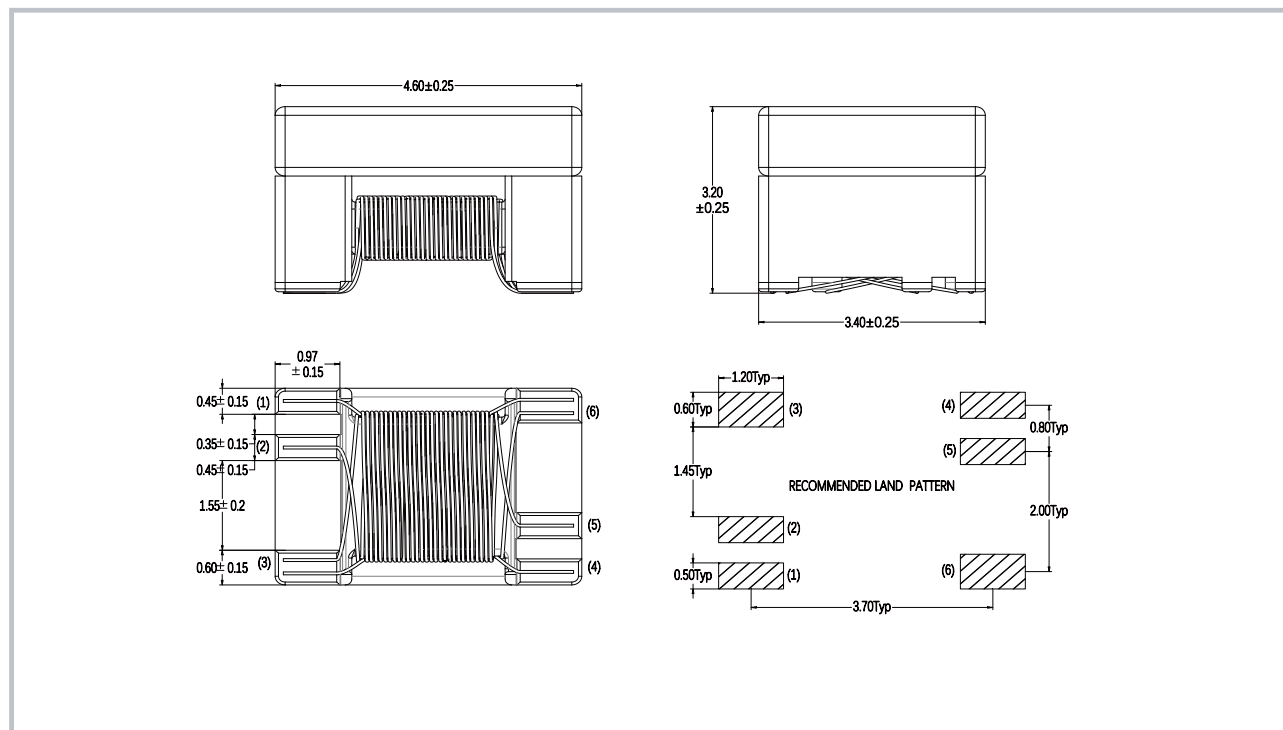
料号	Speed	OCL (μH)	DCR (Ω)	Insertion Loss (dB)				Return Loss (dB)					PoE Rating
		Min	Max	Max				Min					
		10KHz,0.1V		1-200 MHz	200-300 MHz	300-400 MHz	400-500 MHz	1-200 MHz	100-200 MHz	200-300 MHz	300-400 MHz	400-500 MHz	
WHLT-4532B-121MMT	10G	120 @15MA	2.00	-1.2	-1.5	-2.0	-3.0	-18.0	-16.0	-12.0	-10.0	-8.0	PoE at

NOTES:

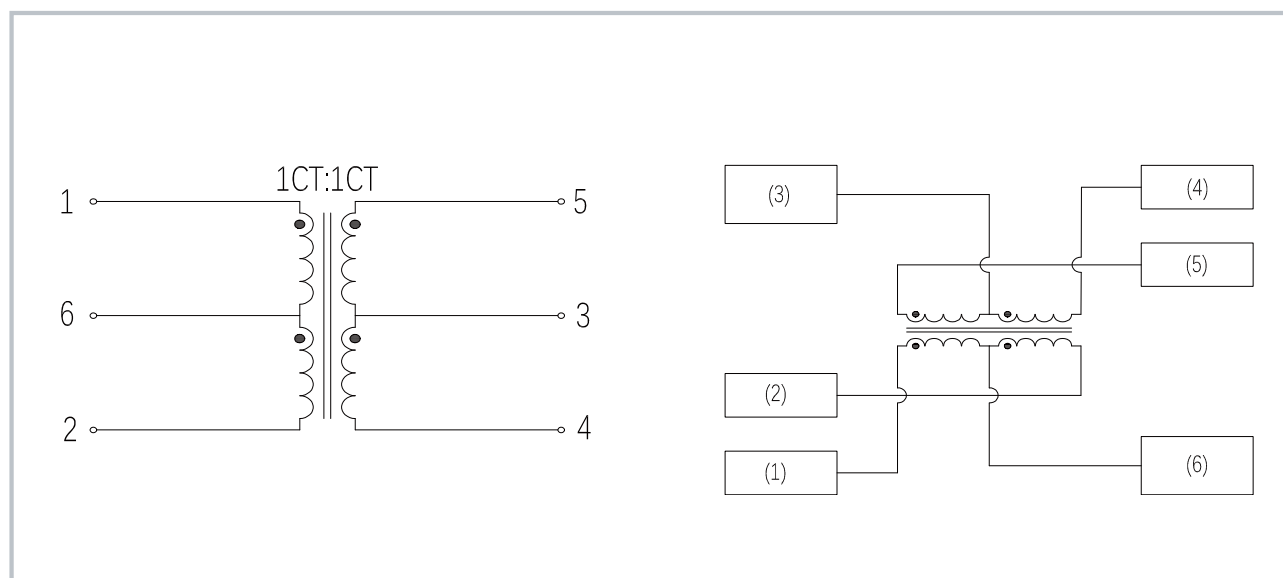
Electrical Specifications @ 25°C
All Information Is Reference Only. See Datasheet For Specific Information.

4532(1812)SIZE CHIP TRANSFORMER

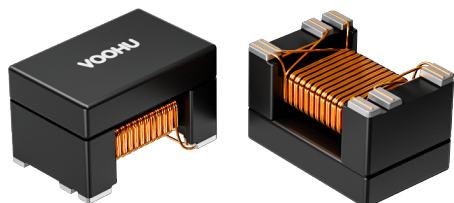
Mechanical(Unit:mm)



Schematics & Application



5335(2013)SIZE CHIP TRANSFORMER



特性

- Compliant With Ethernet 1/2.5/5/10GBase-T
- 100 % Automatic Production
- Improved Return Loss And Cross Talk Properties
- Super Small Size
- Available in 5335(2013) Size
- Operating Temperature: -40°C Up To +105°C

料号	Speed	OCL (μH)	DCR (Ω)	Insertion Loss (dB)		Return Loss (dB)		PoE Rating
		Min	Max	Max		Min		
		100KHz,0.1V		1-100MHz	100-250MHz	1-100MHz	100-250MHz	
WHLT-5335A-151MQB	2.5/5G	150 @21MA	4.50	-1.0	-2.0	-16	-16+ 10LOG(F/40)	PoE at

NOTES:

Electrical Specifications @ 25°C

All Information Is Reference Only. See Datasheet For Specific Information.

料号	Speed	OCL (μH)	DCR (Ω)	Insertion Loss (dB)				Return Loss (dB)					PoE Rating
		Min	Max	Max				Min					
		10KHz,0.1V		1-200 MHz	200-300 MHz	300-400 MHz	400-500 MHz	1-200 MHz	100-200 MHz	200-300 MHz	300-400 MHz	400-500 MHz	
WHLT-5335A-121MMB	10G	120 @15.75MA	1.20	-1.2	-1.5	-2.0	-3.0	-18.0	-16.0	-12.0	-10.0	-8.0	PoE bt

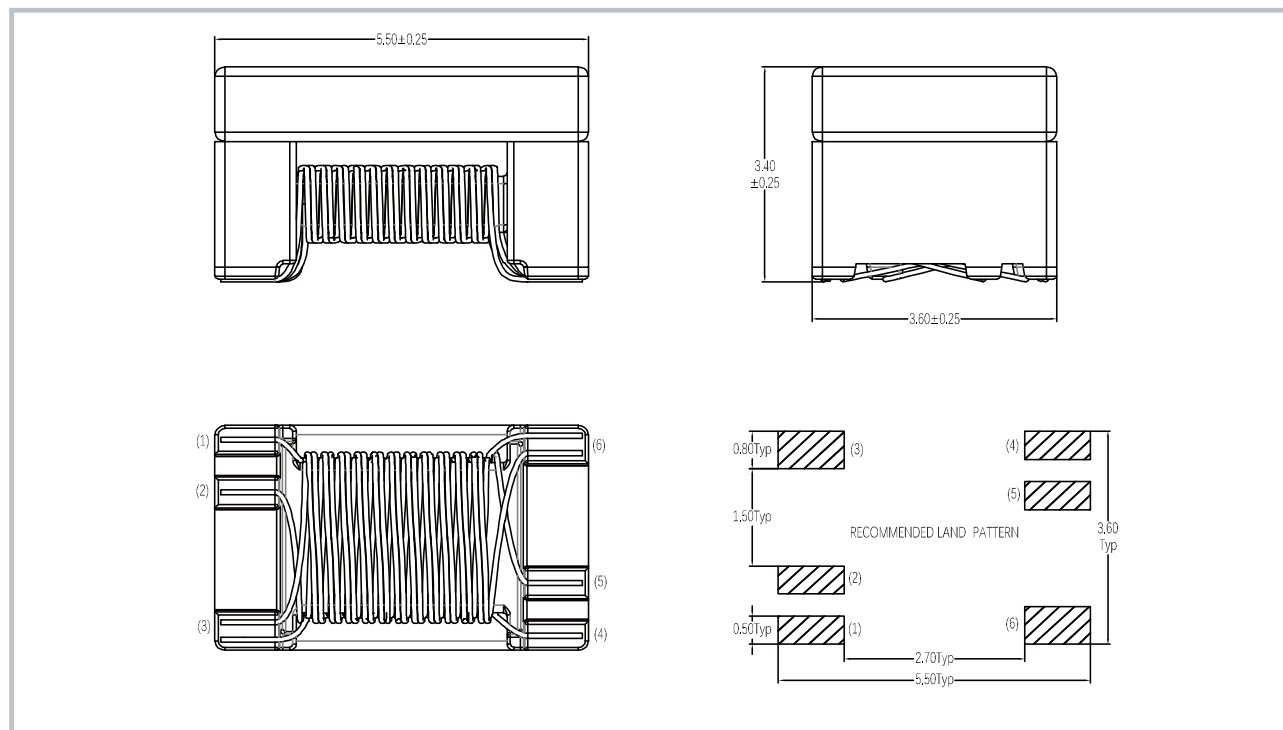
NOTES:

Electrical Specifications @ 25°C

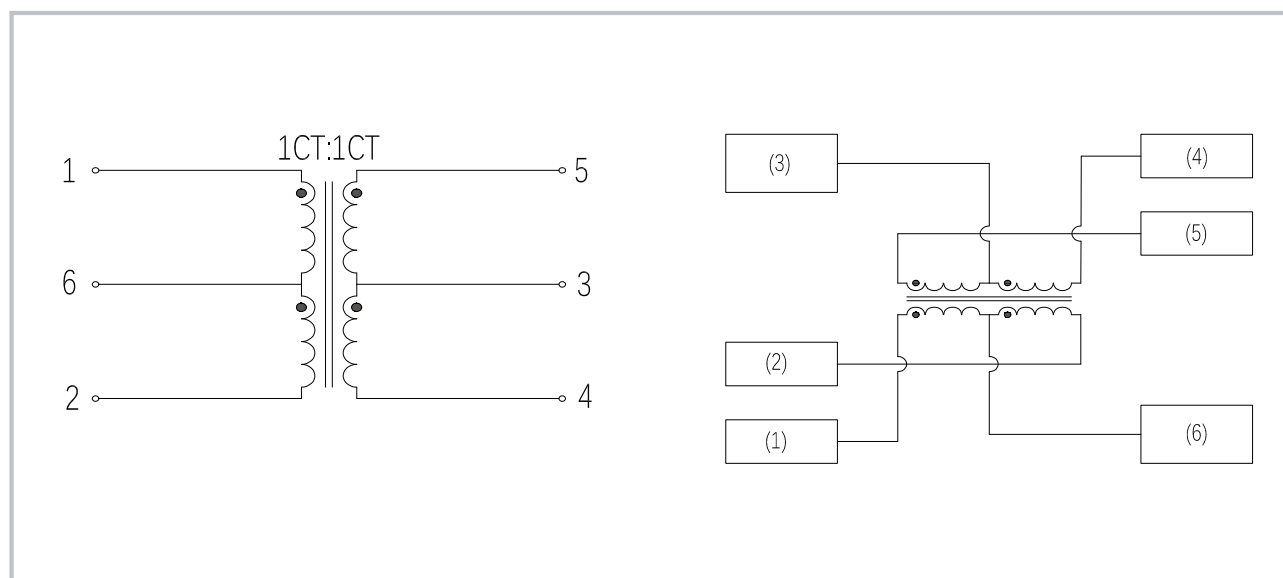
All Information Is Reference Only. See Datasheet For Specific Information.

5335(2013)SIZE CHIP TRANSFORMER

Mechanical(Unit:mm)



Schematics & Application



VOOHU 沃虎

选沃虎 · 真靠谱

苏州沃虎电子科技有限公司

Suzhou VOOHU Electronic Technology Co., Ltd.



400 1048 018



www.voohu.cn



wohu@wohu-tek.com



江苏省苏州市吴江区东太湖大道11666号开平商务中心G幢13楼
13th Floor, Building G, Kaiping Business Center, No. 11666,
East Taihu Avenue, Wujiang District, Suzhou City, Jiangsu Province



公司官网



沃虎商城