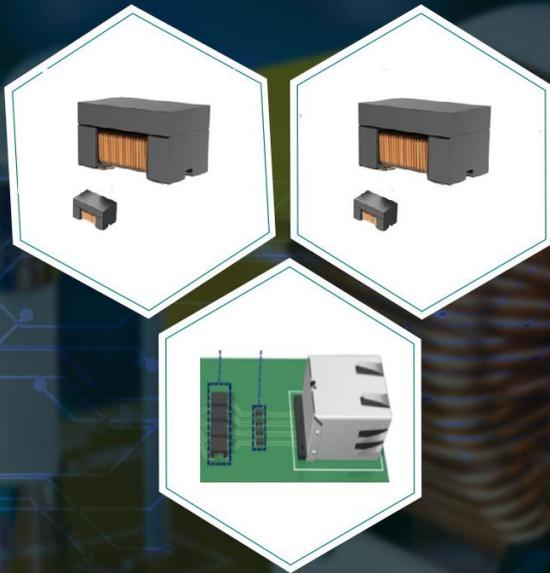


Chip Lan Magnetics Product Application Guide



OUR ADVANTAGE

- ✓ Reliable product quality
- ✓ Delivery on time
- ✓ Competitive price
- ✓ Quick response
- ✓ Design in design win



www.jansum-electronics.com

About JANSUM

Jansum Electronics Dongguan Co.,Ltd. is located in Changping Town, Dongguan City. We are a company specializing in R&D, manufacturing and sales of Ethernet transformer, Telecom transformer, Choke coils, Inductors,Power transformer, Planar transformer, Chip Lan magnetics, xDSL/T1/E1 transformer, Solar inverter inductor, and other magnetic components. The products sell well at home and abroad, and are exported to Europe, America, Southeast Asia, Middle East, Australia and other markets, and provide OEM/ODM services for domestic and foreign customers. We have such a full range of products categories, stable performance, and cost-effective, that we have received consistent praise from customers. Our products are widely used in network switches, routers, ADSL, optic modem, set-top boxes, TV, monitoring equipment, network players, smart home,solar power inverter, EV charging equipment and other industries.

Jansum Electronics adheres to the people-oriented, integrity-based, professional first, continuous innovation and harmonious development as a guide. Our mission is to provide comprehensive solutions and serialized products for customers, to become a trusted partner of customers, and to create a stage for employees to achieve personal value. Our Vision is to become the supplier of choice for magnetics components solutions. At the same time, we have been participating in social public welfare work and do our best to help those in need.

About Chip Lan Magnetics

Jansum as a professional Chip Lan Magnetics manufacturer, you can rest assured to buy Chip Lan Magnetics from our factory and we will offer you the best after-sale service and timely delivery.

Our Chip Lan Magnetics included X'fmr+CMC solution and Capacitor+CMC solution.

Each solution has its advantages and disadvantages. You can select the right solution based on actual requirements.

Features & Benefits

- ◆ Full-process automation
- ◆ Cost reduction
- ◆ High consistency
- ◆ Small size
- ◆ Commercial and industry application

Applications

- Routers
- Gateways
- Consumer products
- Telecom applications
- Standard office equipment

About Our Chip Lan Magnetics

Jansum's Chip Lan Magnetics are RoHS compliant. The product line covers every Ethernet application on the market today.

We also offer options to meet any special requests, please kindly contact our sales representative if you have any questions.

Our advantage:

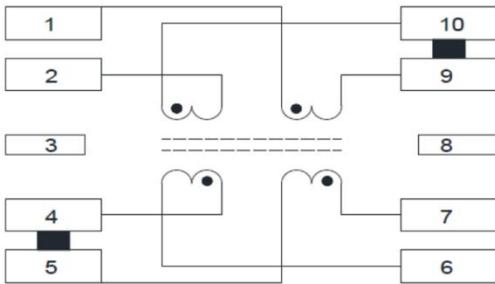
1. Reliable quality
2. Competitive cost
3. Design in design win
4. Delivery on time
5. Quick response

PN	Speed Rate	Type	PAD Number	Operating Temp	Size	Inductance /Impedance	PoE Rating
G4732C01	1000Base-T	Chip Transformer	8	-40°C to +125°C	4.7*3.25*3.2mm	350uH Min. @100KHz/0.1V with 8mA DC Bias	Non-PoE
JX2012C01	1000Base-T	Chip Common Choke	4	-40°C to +125°C	2.0*1.27*1.23mm	800±25%(Ω) @100MHZ	Non-PoE
JX3216C01	1000Base-T	Chip Auto Transformer	4	-40°C to +85°C	3.4*1.6*2.0mm	60uH Min. @100KHz/0.1V	Non-PoE
JX3216C02	1000Base-T	Chip Auto Transformer	4	-40°C to +85°C	3.4*1.6*2.0mm	80-120uH Min. @100KHz/0.1V	Non-PoE
V4532C01P	2.5G/5G Base-T	Chip Transformer	8	-40°C to +125°C	4.6*3.25*3.4mm	200uH Min. @100KHz/0.1V with 15mA DC Bias	PoE+
V4732C01	2.5G/5G Base-T	Chip Transformer	10	-40°C to +100°C	4.7*3.25*3.2mm	180uH Min. @100KHz/0.1V with 8mA DC Bias	Non-PoE
JX2012C05	2.5G/5G Base-T	Chip Common Choke	4	-40°C to +85°C	2.0*1.27*1.23mm	380±25%(Ω) @100MHZ	Non-PoE
JX2012C03	10G Base-T	Chip Common Choke	4	-40°C to +85°C	2.0*1.27*1.23mm	260±25%(Ω) @100MHZ	Non-PoE
T4732C01	10G Base-T	Chip Transformer	10	-40°C to + 125°C	4.7*3.25*3.2mm	120uH Min. @100KHz/0.1V	Non-PoE
T4532C03	10G Base-T	Chip Transformer	6	-40°C to +110°C	4.6*3.25*3.2mm	120uH Min. @100KHz/0.1V with 8mA DC Bias	Non-PoE
T6553C01	10G Base-T	Chip Transformer	6	-40 °C to + 85°C	6.5*5.3*4.6mm	120uH Min. @100KHz/0.1V with 15mA DC Bias	PoE++

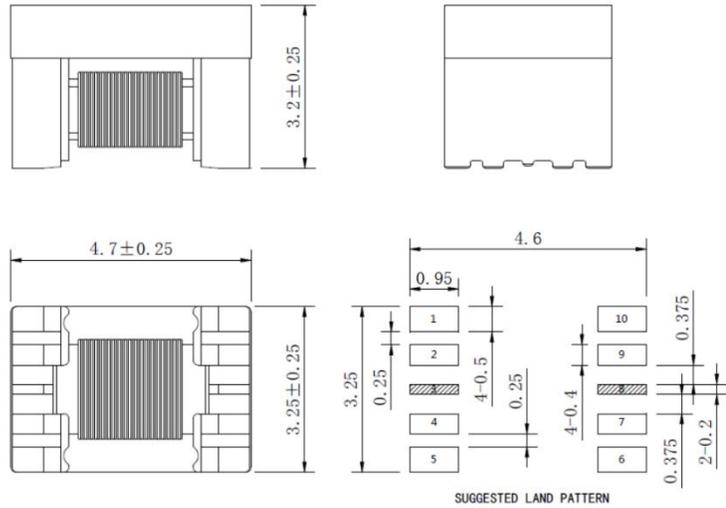
About Our Chip Lan Magnetics

G4732C01

Schematic

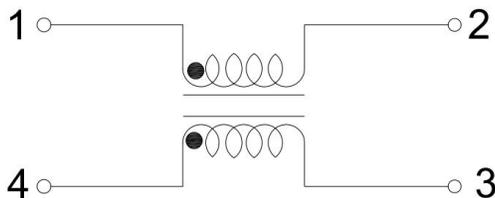


Mechanical

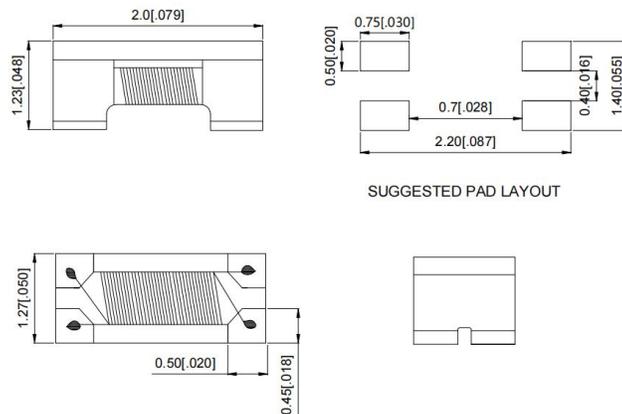


JX2012C01

Schematic



Mechanical



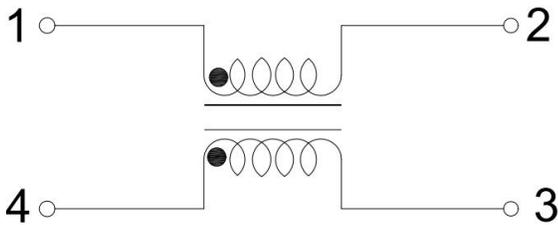
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2. Unless otherwise specified, all tolerances are $\pm 0.20[.008]$

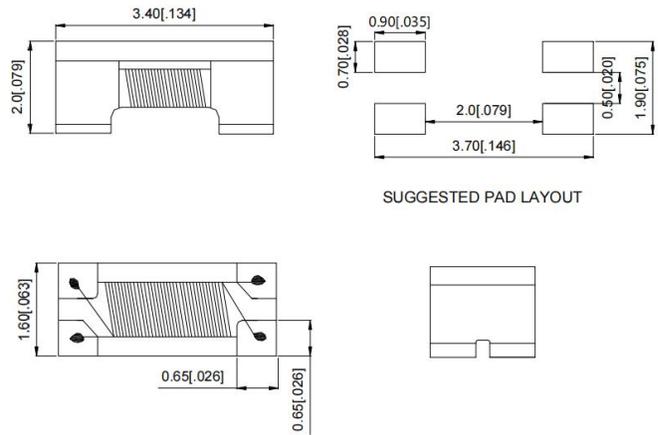
About Our Chip Lan Magnetics

JX3216C01

Schematic



Mechanical

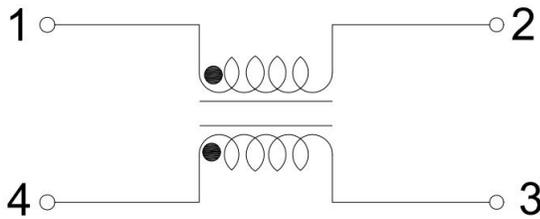


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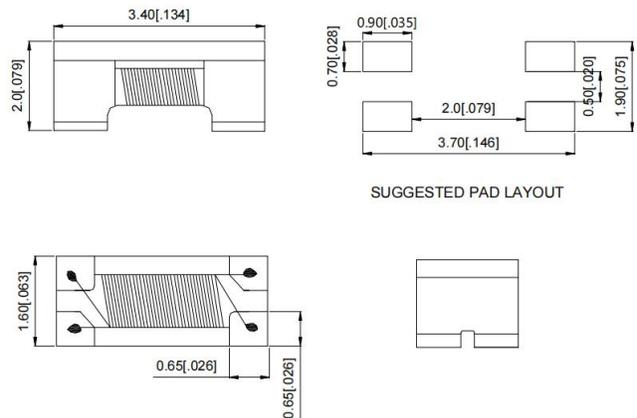
2. Unless otherwise specified, all tolerances are ± 0.20 [0.008]

JX3216C02

Schematic



Mechanical



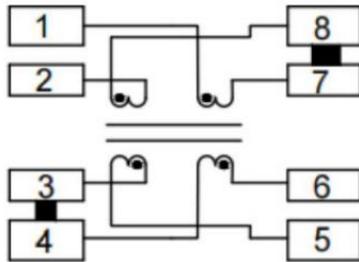
1. Unit: mm[inch]

2. Unless otherwise specified, all tolerances are ± 0.20 [0.008]

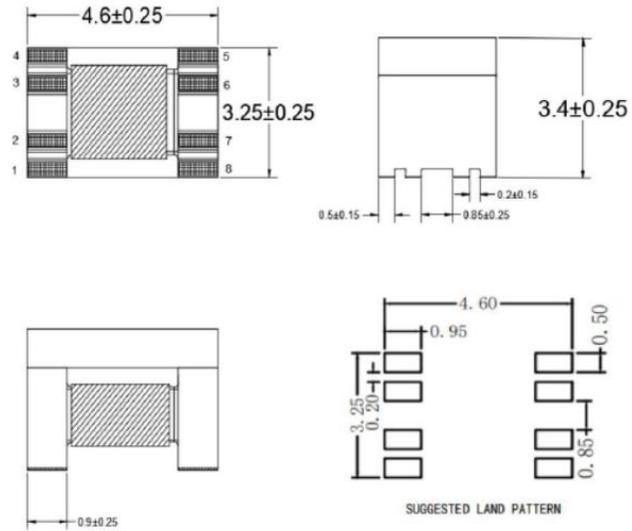
About Our Chip Lan Magnetics

V4532C01P

Schematic

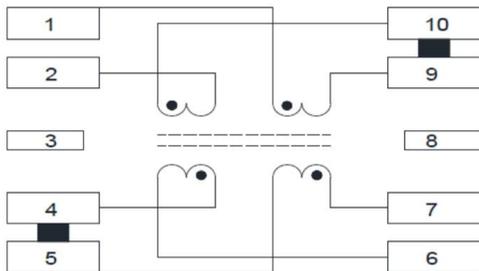


Mechanical

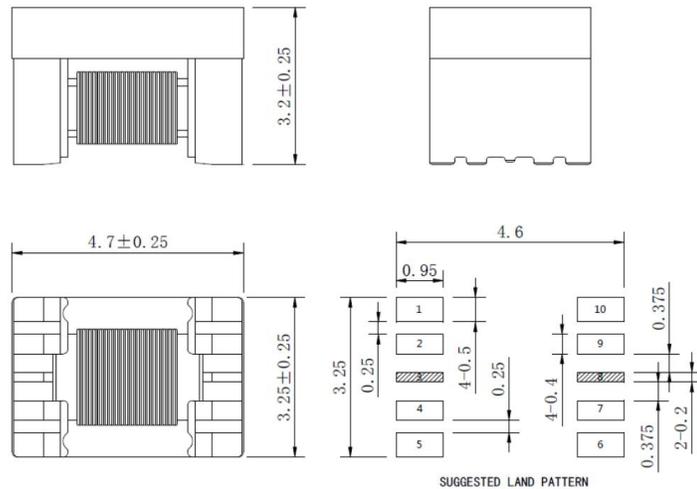


V4732C01

Schematic



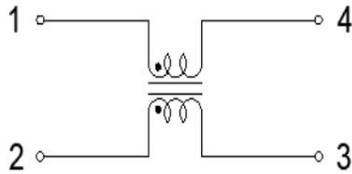
Mechanical



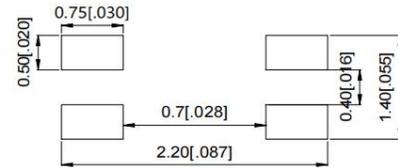
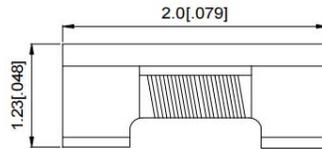
About Our Chip Lan Magnetics

JX2012C05

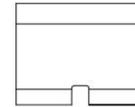
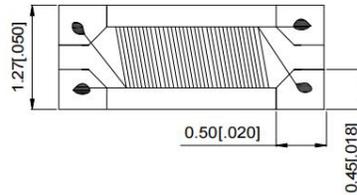
Schematic



Mechanical



SUGGESTED PAD LAYOUT

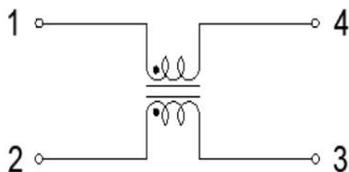


1. Unit: mm[inch]

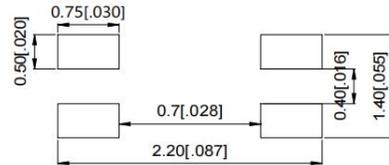
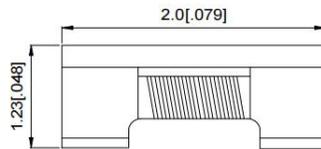
2. Unless otherwise specified, all tolerances are $\pm 0.20 [0.008]$

JX2012C03

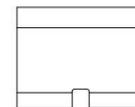
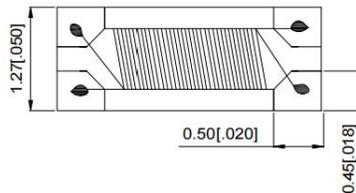
Schematic



Mechanical



SUGGESTED PAD LAYOUT



1. Unit: mm[inch]

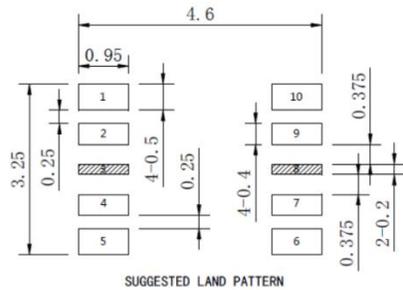
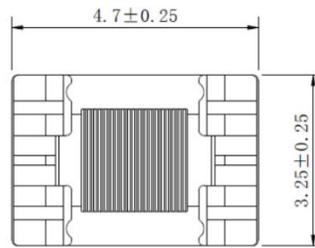
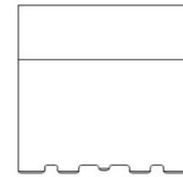
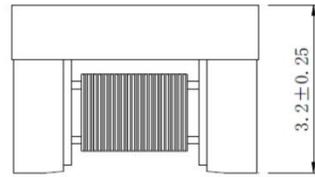
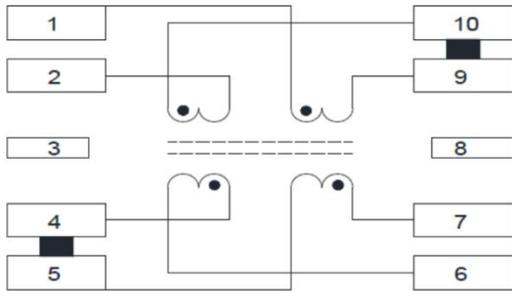
2. Unless otherwise specified, all tolerances are $\pm 0.20 [0.008]$

About Our Chip Lan Magnetics

T4732C01

Schematic

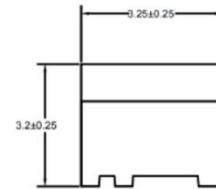
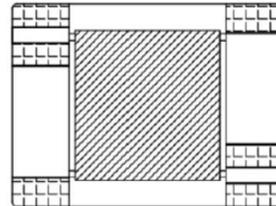
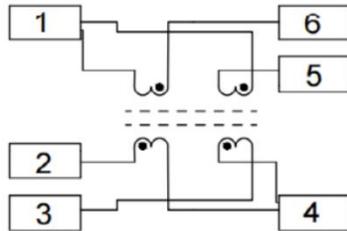
Mechanical



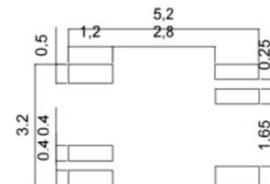
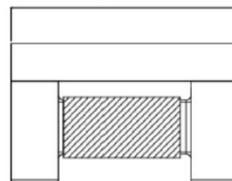
T4532C03

Schematic

Mechanical



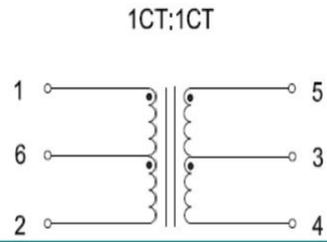
4.6 ± 0.25



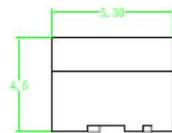
About Our Chip Lan Magnetics

T6553C01

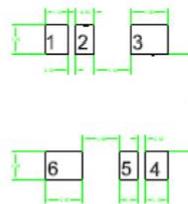
Schematic



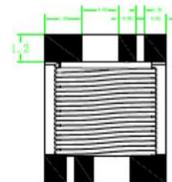
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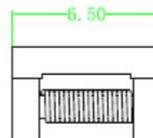
FRONT VIEW



SUGGEST LAYOUT

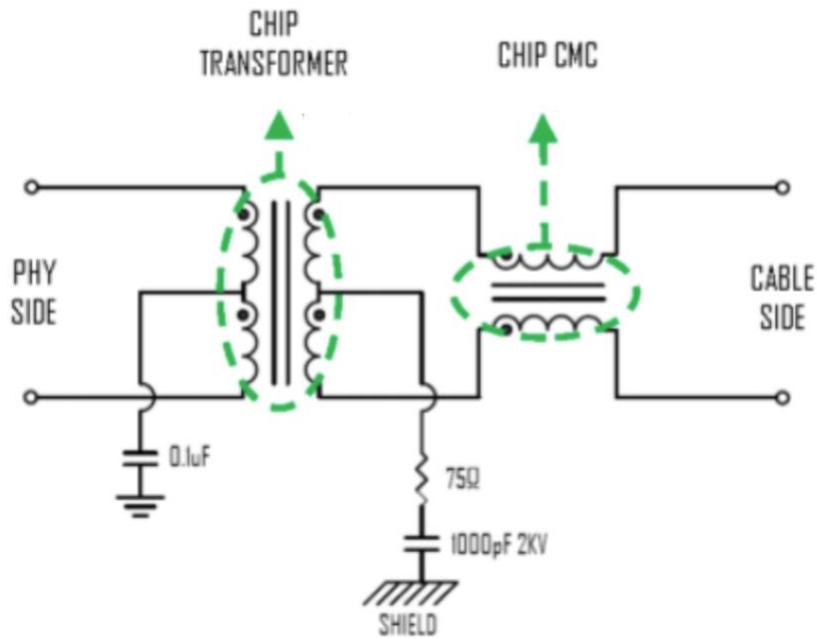


BOTTOM VIEW

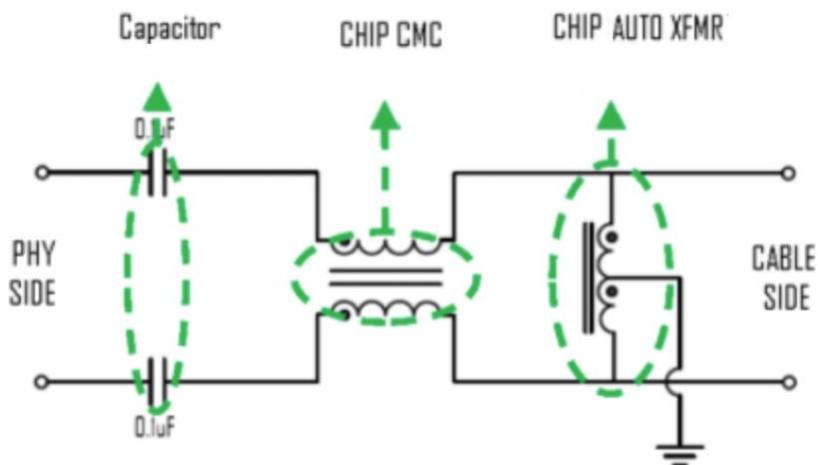


SIDE VIEW

Typical Application



Chip Transformer+Chip Common Mode Choke Solutions
(Shortly named X'fmr+CMC Solution)



Capacitor+Chip Common Mode Choke+Chip Auto Transformer Solutions
(Shortly named Cap+CMC Solution)

Selection for GIG series

1000M Chip Lan:



SN	PN	Desc.	Function
1	G4732C01	Chip Xfmr, 350uH Min	X'fmr+CMC Solution, Main X'fmr
2	JX2012C01	Chip CMC, common choke	Common choke
3	JX3216C01	Chip Auto Xfmr,60uH Min	Cap+CMC Solution, Auto-X'fmr
4	JX3216C02	Chip Auto Xfmr,80~120uH	Cap+CMC Solution, Auto-X'fmr

- 
S1 X'fmr+CMC Solution: 1+2
- 
S2 Cap+CMC Solution: 2+3(Recommend)
- 
S3 Cap+CMC Solution: 2+4

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- *Concept innovation is the guide*
- *Strategic innovation is the direction*
- *Organizational innovation as a guarantee*
- *Technological innovation as a means*
- *Market innovation is the goal*



For more information please contact us:

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