RoHS Compliance Readiness Survey

Mainland China, Taiwan, Hong Kong and South Korea



December 2005

- Batteries
- Car electronics
- Color TVs
- Computer peripherals
- Computer systems and components
- Connectors
- Electronic security
- Home A/V products
- LEDs and LED displays
- Media players and recorders
- Networking products
- Passive components
- Personal electronic devices
- Printed circuit boards
- Telecom products

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Growing RoHS compliance in Asia's electronics sector

Survey shows 93 percent of manufacturers in Greater China and South Korea will be RoHS-compliant by July 2006.

> Manufacturers in mainland China, Taiwan, Hong Kong and South Korea exporting to Europe are bent on beating the July 1, 2006 deadline set by the European Union (EU) for their products to comply with the directive on the Restriction of Certain Hazardous Substances (RoHS). This directive is closely linked with the Waste, Electrical and Electronic Equipment (WEEE) directive that took effect last August 2005.

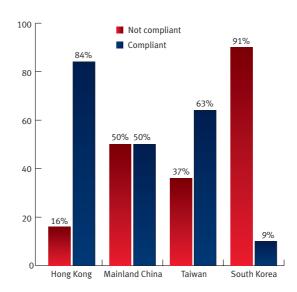
In the September 2005 survey of 359 manufacturers that are exporting or plan to export electronic components, consumer electronics, and telecom and computer products to Europe, Global Sources found out that 51 percent are already RoHS-compliant. Of the remaining manufacturers, 86 percent plan to comply by end of June 2006, raising the percentage of compliant manufacturers to 93.3 percent by the time the directive takes effect. The charts and graphs on the following pages highlight the state of compliance of key segments of the electronics and components industry in the aforementioned areas.

Based on China's Customs Statistics, mainland China's export value would have reached \$400 billion of electromechanical products by late 2005. Statistics from the China Chamber of Commerce for Import and Export of Machinery and Electronic Products show the two directives, based on 2005's trading volume, will affect \$5.6 billion worth of the mainland's exports to

As for Taiwan, its export of electrical and electronic equipment and products to the EU is estimated at \$10 billion on the average. The Industrial Development Bureau of Taiwan's Ministry of Economic Affairs has announced support for Taiwan manufacturers who are coping with issues regarding the RoHS directive.

RoHS COMPLIANCE BY REGION

Is your company RoHS-compliant?



As of September 2005, the majority of the export-oriented manufacturers in Hong Kong and Taiwan are RoHS compliant, with the remaining non-compliant companies planning to shift to lead-free manufacturing before the July 2006 deadline.

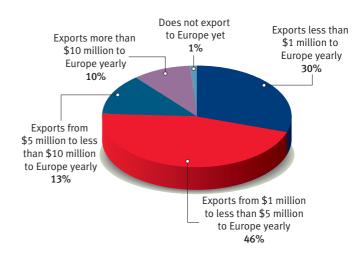
Since most surveyed Hong Kong makers ship components and consumer electronics devices worth more than \$5 million to Europe, they would not risk losing a major income-generator by not complying with the EU directive.

Ninety-eight percent of non-RoHS-compliant mainland China makers plan to beat the mid-2006 deadline, while the rest will comply after July 2006

South Korea companies are also in the process of complying with the directive. Although less than 10 percent of the respondents are complying with the directive during the time of the interview, the remaining repondents will shift to RoHS compliant production in time for the midyear deadline.

EXPORT ORIENTATION OF ROHS-COMPLIANT RESPONDENTS

What is the estimated value of your export to Europe in 2005?



The pie chart shows that 140 manufacturers who export \$5 million or less per year comprise the bulk of RoHS-compliant manufacturers. Companies that export more than \$5 million to Europe yearly total 42.

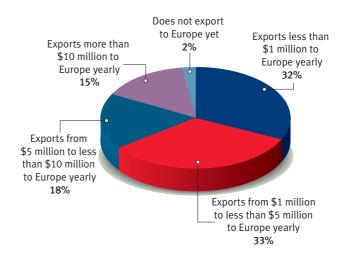
Small- to medium-scale manufacturers cater to niche markets in Europe, considerably lowering the risk of not getting an immediate return on their investments, and making it easier for them to comply with the RoHS directive.

Mainland China respondents have a compliance rate of 50 percent. About 84 percent of 32 Hong Kong respondents are already RoHScompliant. Manufacturers from both regions export a large chunk of their production to Europe, and thus have a need for early compliance.

Also, 37 percent of more than 70 Taiwan companies and 9 percent of more than 32 respondents from South Korea already comply with the directive.

EXPORT ORIENTATION OF NON-RoHS-COMPLIANT RESPONDENTS

What is the estimated value of your export to Europe in 2005?



Of the 171 manufacturers who said they are not yet compliant, 89 percent plan to comply by the end of June 2006. The pie chart shows that 65 percent of these manufacturers export less than \$5 million to Europe.

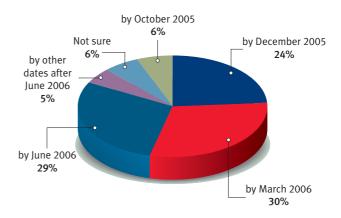
Based on the annual export value to Europe, about 50 percent of manufacturers that export less than \$1 million are not compliant. For those that export from \$1 million to less than \$5 million, only 40 percent are not compliant; while 58 percent of those that export more than \$5 million are not compliant.

In terms of numbers and percentages, it would seem that small- to medium-scale manufacturers were quicker in deciding to comply with the RoHS directive.

The good news for buyers in the EU is that 97.7 percent of the companies that are not compliant will eventually comply with the RoHS directive.

COMPLIANCE PROGRAM OF NON-RoHS-READY MANUFACTURERS

Is your company RoHScompliant? If not yet, by what month will your company be RoHS-compliant?



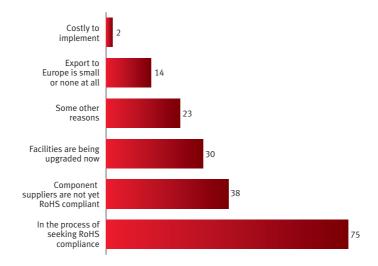
For non-compliant manufacturers who will eventually comply with the RoHS directive, the pie chart shows their program of implementation.

In terms of annual export value to Europe, 24 percent of those that export less than \$1 million plan to comply by year-end 2005, while 64 percent will try before the deadline. For those that export from \$1 million to less than \$5 million, 34 percent will try to comply by year-end 2005, while 57 percent will try before the deadline.

About 19 percent of companies that export from \$5 million to less than \$10 million expect to comply by year-end 2005, while 64 percent will try before the deadline. For those that export more than \$10 million, 46 percent plan to comply by year-end 2005, while another 46 percent will do so before the deadline.

REASONS FOR THE DELAY IN ROHS COMPLIANCE

If your company is not yet RoHS-compliant, what are the reasons?



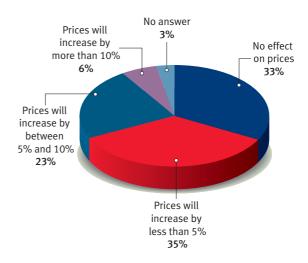
The process of meeting the RoHS requirements involves upgrading manufacturing facilities or waiting for component suppliers to also become RoHS-compliant.

Only two manufacturers cited cost as a deterrent toward becoming RoHS-compliant. This may mean that for the majority of non-compliant manufacturers, not complying early with RoHS standards is a conscious decision.

Understandably, there are manufacturers who are not in a hurry to comply with the EU directive because the European market does not contribute significantly to their revenue.

PRICING PERCEPTION OF THE INDUSTRY

How will RoHS compliance affect your company's product prices?



Industry experts have estimated that compliance with the RoHS directive will lead to a 10 percent rise in production cost, and a subsequent increase in product prices.

About 64 percent of respondents said that RoHS compliance will effect an increase in product prices as shown by the chart. What the chart does not show, however, is that where the export value increases, there is greater likelihood for prices to increase. This is probably because the thin profit margin at very high volumes is further diminished by the additional cost of complying with the directive.

Based on the annual value of export to Europe, 40.5 percent of manufacturers that export less than \$1 million said that RoHS compliance would not affect product prices. This view is shared by 33 percent of those that export from \$1 million to less than \$5 million; 26 percent of those that export from \$5 million to \$10 million; and 20 percent of those that export more than \$10 million.

PRICING PERCEPTION OF COMPLIANT AND NON-COMPLIANT MANUFACTURERS

How will RoHS compliance affect your company's product prices?



Only 23 percent of non-compliant manufacturers said that RoHS implementation would have no effect on product prices, while 66 percent said that RoHS would increase product prices by up to 10 percent. The perception of non-compliant manufacturers is shown on the right.

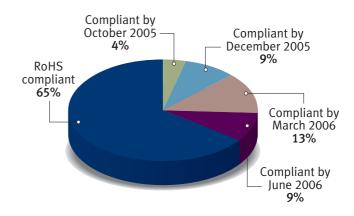
In contrast, 42 percent of compliant manufacturers said that RoHS did not have any effect on their product prices. Only about 50 percent said that their product prices have increased by as much as 10 percent because of RoHS.

Generally, though, the perception of non-compliant respondents is similar to that of compliant respondents.

BATTERIES

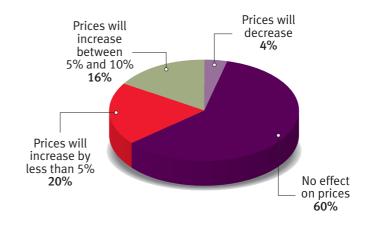
Is your company RoHScompliant? If not yet, by what month will your company be RoHS-compliant?

Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

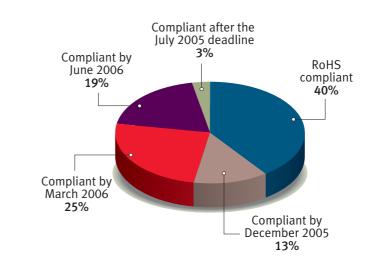


Most surveyed battery makers expect to maintain prices in the face of RoHS implementation, with only 36 percent expecting prices to increase upon implementation of the EU directive, and 4 percent anticipating prices to go down.

CAR ELECTRONICS

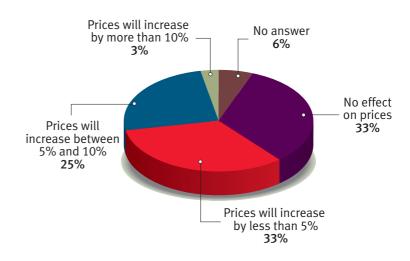
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Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

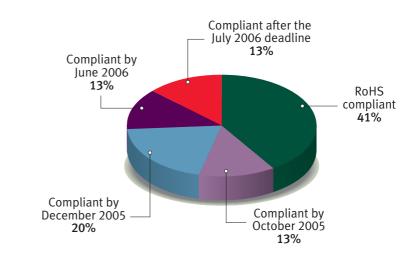


With respondents eyeing other major export regions such as North America and Asia, 66 percent of the car electronic makers believe that RoHS will only jack up prices by up to 5 percent.

COLOR TVs

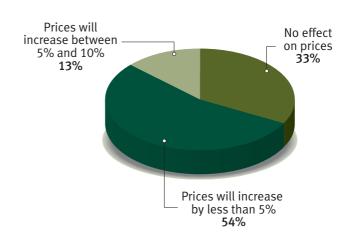
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Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices



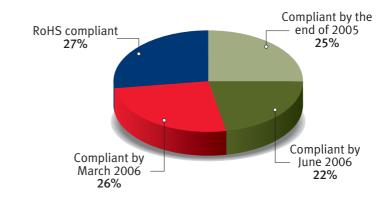
The majority of the respondents would have shifted to RoHS compliant production by the time the directive is implemented; 13 percent disclosed that they will comply after the deadline.

The decreasing cost of LCD panels and CRT monitors will have a counter effect on the cost of RoHS implementation. A less than 5-percent increase in prices will be the net effect.

COMPUTER PERIPHERALS

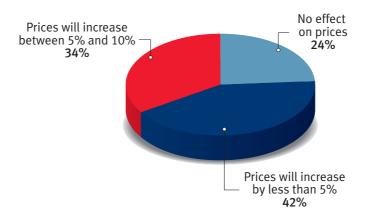
Is your company RoHS-compliant? If not yet, by what month will your company be RoHS-compliant?

Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

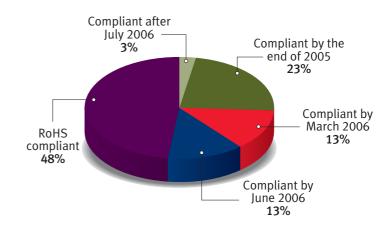


All of the surveyed makers of computer peripherals would have shifted to RoHS-compliant manufacturing by the time the RoHS directive takes effect. Computer peripheral makers are torn between raising prices and maintaining stable price quotes, primarily due to the increasing oil prices, and unstable supply and cost of LCD panels.

COMPUTER SYSTEMS AND COMPONENTS

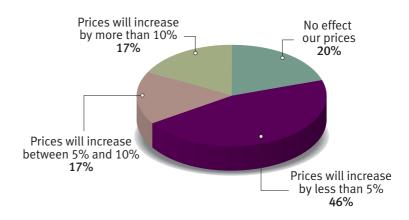
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Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

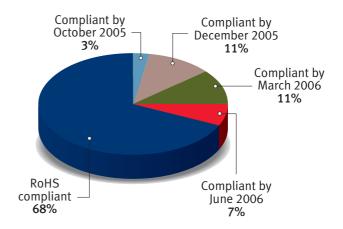


Most makers of hard disk drives, computer drives, computer cards and motherboards indicated they will increase prices by up to 10 percent as an effect of RoHS compliance. The rapidly growing computer replacement market in Europe is one other factor that limits the makers' price increases.

CONNECTORS

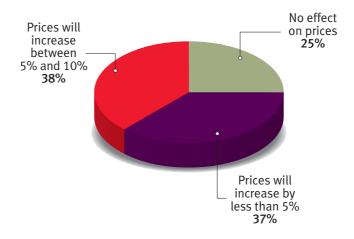
Is your company RoHS-compliant? If not yet, by what month will your company be RoHS-compliant?

Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

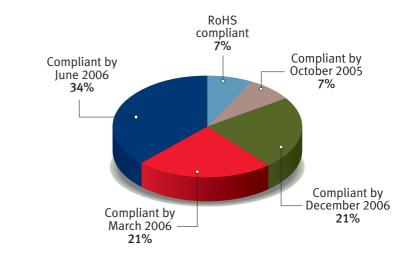


The majority of connector makers are already RoHS-compliant. Seventy-five percent of the respondents expect prices to increase by as much as 10 percent. The percentage of RoHS-compliant makers is expected to reach 82 percent by year-end 2005.

ELECTRONIC SECURITY

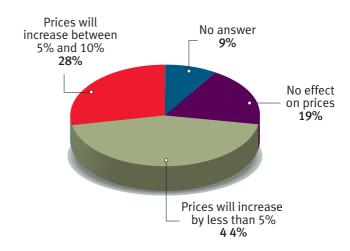
Is your company RoHScompliant? If not yet, by what month will your company be RoHS-compliant?

Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

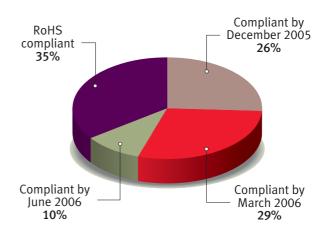


The majority of electronic security product makers are planning to increase the prices of their products because of RoHS compliance. Most of the non-compliant respondents will comply by the mid-2006 deadline as Europe is one of the line's major markets.

HOME A/V PRODUCTS

Is your company RoHS-compliant? If not yet, by what month will your company be RoHS-compliant?

Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

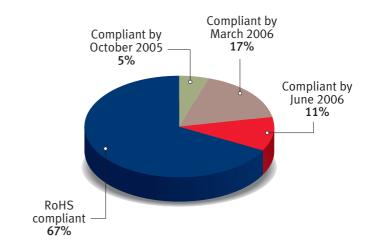


Since component costs are expected to increase because of RoHS compliance, 83 percent of home A/V product makers also expect the prices of their products to increase. Many makers in this segment say their compliance depends on their component suppliers becoming RoHS-ready.

LEDS AND LED DISPLAYS

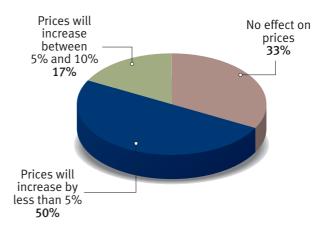
Is your company RoHScompliant? If not yet, by what month will your company be RoHS-compliant?

Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

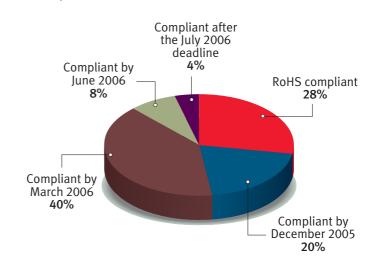


Sixty-seven percent of the surveyed LED and LED display makers expect RoHS compliance to drive up prices by as much as 10 percent. A 100percent compliance is expected before July 1, 2006.

MEDIA PLAYERS AND RECORDERS

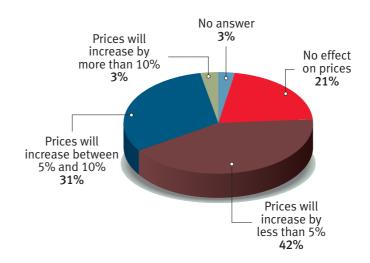
Is your company RoHS-compliant? If not yet, by what month will your company be RoHS-compliant?

Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

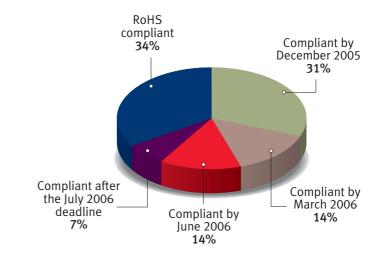


Makers of media players and recorders have other issues to deal with, such as IPR and licensing, aside from complying with RoHS standards. Seventy-six percent of makers said that they will increase their prices because of the directive.

NETWORKING PRODUCTS

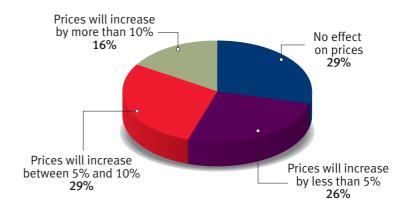
Is your company RoHScompliant? If not yet, by what month will your company be RoHS-compliant?

Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

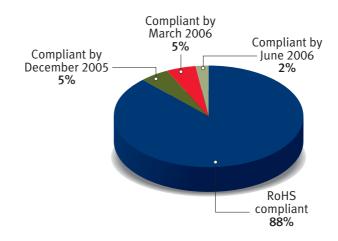


The availability of low-cost wireless IC solution from Taiwan and the increasing demand for wireless devices from the business and SOHO segments are enough for most wired and wireless networking device makers to maintain stable FOB prices, even after the implementation of the RoHS directive for all Europe-bound networking products.

PASSIVE COMPONENTS

Is your company RoHScompliant? If not yet, by what month will your company be RoHS-compliant?

Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

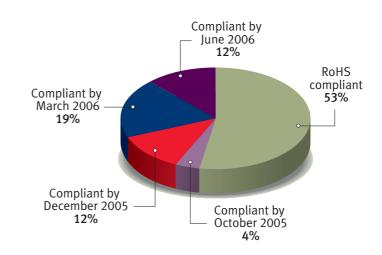


The majority of passive component manufacturers are already RoHS-compliant. As a result, more than half of the respondents—52 percent—said that the RoHS implementation will not affect their current product prices. Twenty-seven percent of the surveyed makers, meanwhile, said that the prices will increase minimally by up to 5 percent.

PERSONAL ELECTRONIC DEVICES

Is your company RoHScompliant? If not yet, by what month will your company be RoHS-compliant?

Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices

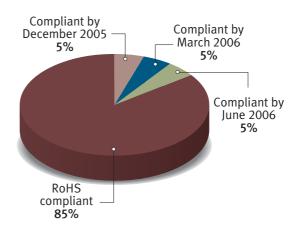


For the majority of makers of personal electronic products such as MP3 players, CD players, DVD players and multimedia players, prices will increase by up to 10 percent because of RoHS compliance. More than half of the respondents were already complying with the directive as of September 2005.

PRINTED CIRCUIT BOARDS

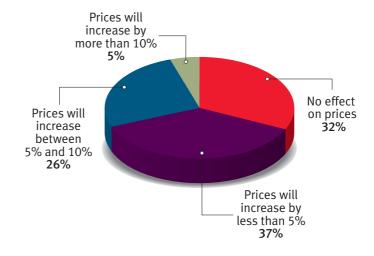
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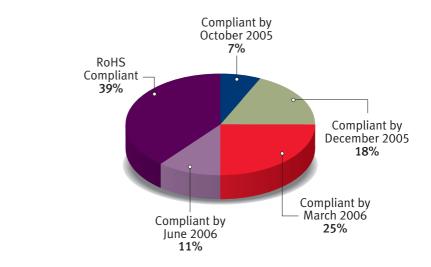


Thirty-seven percent of PCB makers who have forecast price increases are anticipating a price hike of less than 5 percent. Price hikes were attributed more to increasing raw material costs than to production costs, as 85 percent of surveyed makers were already RoHS compliant.

TELECOM PRODUCTS

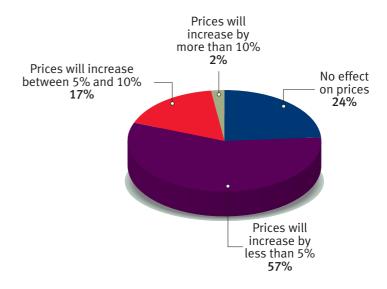
Is your company RoHScompliant? If not yet, by what month will your company be RoHS-compliant?

Status of compliance



How will RoHS compliance affect your company's product prices?

Impact on prices



Thirty-nine percent of telecom product makers were on lead-free manufacturing as of September 2005.

The majority (57 percent) of cordless phones, VoIP, mobile phones, GPS and two-way radio makers forecast that RoHS-compliance may result in prices increasing by less than 5 percent.

Company	Region	Batteries	Car electronics	Color TVs	Computer peripherals	Computer systems and components	Connectors
4NSYS	South Korea						
A-Bright Industrial Co. Ltd	Taiwan						
Abundance Enterprise Co.	Hong Kong						
Accesspro Tech Co. Ltd	Taiwan				✓		
Ace Sound Enterprise Co. Ltd	Taiwan	✓					
Action Star Enterprise Co. Ltd	Taiwan						
Advanced Connector Technology Inc.	Taiwan						✓
Aerodev Electromagnetic Tech Inc.	Mainland China						
Al Tek Inc.	Taiwan					1	
AL Tech Inc.	South Korea		✓				
Amar & Sun Int'l Group Ltd	Mainland China					1	
Anshan Yes Optoelectronics Display Co. Ltd	Mainland China						
Ansmann Energy International Ltd	Hong Kong	✓					
Apollo (Zhuhai) Electronics Co. Ltd	Mainland China						
Apower Electronics Co. Ltd	Mainland China	✓					
ARC Technology Co. Ltd	Taiwan						
Astrodyne Pacific Corp.	Taiwan						
ATCOM Technology Co. Ltd	Hong Kong						
Beijing 797 Audio Co. Ltd	Mainland China						
Beijing Chenjing Electronics Co. Ltd	Mainland China						
Best Talent Industrial Ltd	Mainland China		1				
Beta Electric Industry Co. Ltd	Taiwan						
Big King Horn Electronic (Shanghai) Co. Ltd	Mainland China	✓					✓
Biokey System Co. Ltd	South Korea						
B-LINK Electronic Ltd	Mainland China					1	
Bloom Industrial (Shenzhen) Co. Ltd	Mainland China						
Bright Toward Industrial Co. Ltd	Taiwan						
Cable Master Technology	Mainland China						
Canal Electronic Co. Ltd	Taiwan						
Car Point	South Korea		✓				
Cenpak electronics Co. Ltd	Mainland China						
Changzhou Duowei Electric Co. Ltd	Mainland China						
Changzhou Huayue Electronic Co. Ltd	Mainland China						
Changzhou Lithim Batteries Co. Ltd	Mainland China	✓					
Changzhou New Zone Desheng Electric Appliance Co. Ltd	Mainland China						
Changzhou Shengtian Electronics Co. Ltd	Mainland China						✓
Chanter Sound Labs Co. Ltd	Taiwan						
Chee Yuen Industrial Co. Ltd	Mainland China	✓					
Chequers Electronic (China) Ltd	Hong Kong						
China Zenli Rectifier Co. Ltd	Mainland China						
China Zuanbao Electronics Co. Ltd	Mainland China						

Visit www.globalsources.com and use Supplier Search to inquire from companies listed in this report.

Electronic security	Home A/V products	LEDs & LED displays	Media players and recorders	Networking products	Passive components	Personal electronics	Printed circuit boards	Telecom products	Other products*
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Company	Region	Batteries	Car electronics	Color TVs	Computer peripherals	Computer systems and components	Connectors
ChuangLian Electronic Component (Group) Co. Ltd	Mainland China						✓
Chung Pak Battery Works Ltd	Hong Kong	✓					
Chuntex Electronic Co. Ltd	Taiwan					✓	
Cixi Anshi Communication Equipment Co. Ltd	Mainland China						
Clipcomm Inc.	South Korea						
Coagent Electronic S&T Co. Ltd	Mainland China		✓				
CoJenjaan Quartek Corp.	Taiwan						
COMMAX Co. Ltd	South Korea	✓	1				1
Competition Electronic S&T Co. Ltd	Mainland China						
Compupal (Group) Corp.	Mainland China				✓		
Comtech Technology Co. Ltd	Taiwan						
Cosonic Enterprise Corp.	Taiwan						
Cybercom Electronic Co. Ltd	Taiwan						
Daekyong Intercom Co. Ltd	South Korea		1				
Dalian Pacific Multi-Layer PCB Co. Ltd	Mainland China						
Decktron	South Korea			1			
Desay Electronics (Huizhou) Co. Ltd	Mainland China						
Dicon	South Korea						
Digital Telemedia. Co. Ltd	Mainland China						
DLG Battery (Shanghai) Co. Ltd	Mainland China	✓					
DM Tech	South Korea			1			
Dongguan Boxun Electronics Co. Ltd	Mainland China						
Dongguan City Dazhong Electronic Co. Ltd	Mainland China						
Dongguan Orient Technology Co. Ltd	Mainland China				1		
Dongguan Richwell Electronics Co. Ltd	Mainland China						
Dongguan Topwell Electronics Co. Ltd	Mainland China						/
Dongguan Xinlai Electronic Co. Ltd	Mainland China					/	
Dongguan Yinli Electronics Co. Ltd	Mainland China						
Dragonsweep Connector Component Co. Ltd	Mainland China						/
Evergreen Hitech Ltd	Taiwan						
E. Star Co. Ltd	Taiwan					/	
Eastpower Battery Ind. Co. Ltd	Mainland China	/					
ECU Electronics Industrial Co. Ltd	Mainland China						
Elim	South Korea			1			
Elite Century Technology Ltd	Hong Kong					/	
Elka International Ltd	Taiwan						
Emperor Corp. (HK) Ltd	Mainland China						
EPoX Computer Co. Ltd	Taiwan						
E-Tecs Ltd	Mainland China				/		
Evalue Technology Inc.	Taiwan				•	/	
EVE Battery Co. Ltd	Mainland China	/				•	

²⁸ Global Sources

Visit www.globalsources.com and use Supplier Search to inquire from companies listed in this report.

Electronic security	Home A/V products	LEDs & LED displays	Media players and recorders	Networking products	Passive components	Personal electronics	Printed circuit boards	Telecom products	Other products*
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				✓					
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Company	Region	Batteries	Car electronics	Color TVs	Computer peripherals	Computer systems and components	Connectors
Exceed Perseverance Electronic Industry Co.Ltd	Mainland China					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Excel (Suzhou) Semiconductor Co.Ltd	Mainland China						
Exceltek Electronics (HK) Ltd	Mainland China		/			1	✓
Express Electronics Ltd	Taiwan						
Fenghua Advanced Technology (Holding) Co. Ltd	Mainland China						
Fenghua Lithium Battery Co. Ltd	Mainland China	✓					
Fidelix	South Korea		✓				
Finenet Electronic Circuit Ltd	Hong Kong						
Firstec	South Korea						
Forever Electronic Co. Ltd	Taiwan						
Foshan Tianpeng Thermostats Co. Ltd	Mainland China						
FranMar International Inc.	Taiwan	/					
Freeport Resources Enterprises Corp.	Mainland China						✓
Fronter Electronics Co. Ltd	Mainland China						
Fujian New Times Digital Technology Co. Ltd	Mainland China				/		
Fujian Quanzhou Dahua Battery Co. Ltd	Mainland China	/					
Fujian Star-net Communication Co. Ltd	Mainland China						
Fuzhou Feihua Optoelectronic	Mainland China						
Fuzhuo Keekoon Electronics Co. Ltd	Mainland China						
G.Tech Technology Ltd	Mainland China				/		
Gaoke Electronics Co. Ltd	Mainland China						
Genius Electronic Optical Co. Ltd	Mainland China						
Global Expert Technologies Ltd	Mainland China						
Glorytech Technology Co. Ltd	Taiwan						
Golden Shine Enterprises Ltd	Mainland China						
Grand Bond (Asia) Ltd	Hong Kong						
Great Leader Technology Ltd	Taiwan	1					
Greenconn Corp.	Taiwan						1
Guangdong Sansong Technology Co. Ltd	Mainland China		1				
Guangzhou Aivin Electronic Co. Ltd	Mainland China						
Guangzhou Huadu Weidi Electronic Fty	Mainland China						
Guangzhou Panyu Juda Car Audio Equipment Co. Ltd	Mainland China						
Guangzhou Tianyi Electronics Co. Ltd	Mainland China		/				
Guangzhou Yitai Electronic Fty	Mainland China		✓				
Guann Tau Int'l Corp.	Taiwan				/	/	✓
Haimen Sancon Jetwell Electronics Co. Ltd	Mainland China						
Haitong Electronic Co. Ltd	Mainland China						
Hali-power Industrial Co. Ltd	Mainland China	/					
Hanghsing Enterprise Co. Ltd	Taiwan						
Hangzhou Dusun Electron Co. Ltd	Mainland China						

 $\label{thm:companies} \mbox{ Visit www.global sources.com and use Supplier Search to inquire from companies listed in this report. }$

Electronic security	Home A/V products	LEDs & LED displays	Media players and recorders	Networking products	Passive components	Personal electronics	Printed circuit boards	Telecom products	Other products*
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	✓					✓			

Company	Region	Batteries	Car electronics	Color TVs	Computer peripherals	Computer systems and components	Connectors
Hangzhou Hosonic Electronic Co. Ltd	Mainland China						
Hangzhou Newsources Electronics Co. Ltd	Mainland China		✓				
Hangzhou Shuangfeng Electronics Co. Ltd	Mainland China						
Hanlong Industrial Co. Ltd	Taiwan				✓	✓	
Hanvit IT	South Korea						
Harsper Co. Ltd	South Korea			1			
Henan Huanyu Powersource Co. Ltd	Mainland China	✓					
Hentak Ltd	Taiwan						
Hitano Enterprise Corp.	Taiwan						
Hong Kong Wisda Electronic Industrial Co. Ltd	Hong Kong						
Hooray Electronics Co. Ltd / Hooray (HK) Co. Ltd	Hong Kong						
Hour Terng Industrial Co. Ltd	Taiwan						✓
HS Teliann	South Korea						
Huiyuan Electronic Co.Ltd	Mainland China						
Huizhou Qiaoxing Famous Science & Technology Co. Ltd	Mainland China						
Huizhou Qingwacase Co. Ltd	Mainland China					✓	
Hung Hing Industries Co.	Hong Kong						✓
Huntkey Power Technology Co. Ltd	Mainland China					1	
Hyun System Co. Ltd	South Korea						
Innostream Inc.	South Korea						
Innovation Sound Technology Co. Ltd	Mainland China						
Interquip Electronics Co. Ltd	Hong Kong						
J Com	South Korea						
JEPCOM	South Korea			✓			
Jetyo Technology	Mainland China				✓		
Jiashan Boss Electronics Co. Ltd	Mainland China		✓				
Jiaxing jinlida Electron Co. Ltd	Mainland China		✓				
Jin Ruh Co. Ltd	Mainland China				✓		✓
JITE Industrial (Shenzhen) Co. Ltd	Mainland China						✓
Joint Force Metal Research & Co. Ltd	Hong Kong						
JOYNet Enterprise Co. Ltd	Taiwan						✓
Jun Ye Electronics	Mainland China						
King Chuang Tech & Electronic Co. Ltd	Mainland China						
Kingnote digital (Shenzhen) Co. Ltd	Mainland China				✓		
Kingtech PCB Ltd	Hong Kong						
Kingwahoo Electronics Co. Ltd	Mainland China						
Kinsun Industried Inc.	Taiwan						✓
Ko Tech Electronics Co.	Hong Kong						
Kwanda Industrial Co. Ltd	Mainland China						
L Lab Corp.	Mainland China		/		/		

³² Global Sources

Visit www.globalsources.com and use Supplier Search to inquire from companies listed in this report.

Electronic security	Home A/V products	LEDs & LED displays	Media players and recorders	Networking products	Passive components	Personal electronics	Printed circuit boards	Telecom products	Other products*
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Company	Region	Batteries	Car electronics	Color TVs	Computer peripherals	Computer systems and components	Connectors
L&K Precision Technology Co. Ltd	Taiwan						
Legion RF Ltd	Taiwan						
LinkCom Mfg Co. Ltd	Taiwan						✓
Lu Kee Electronic Co. Ltd	Hong Kong						
Lucky Light Electronic Int'l Co. Ltd	Hong Kong						
Mason Technologies Ltd	Mainland China						
Maxan Co. Ltd	South Korea		✓				
Maxway Technology Co. Ltd	Mainland China				/	1	
Mean Well Enterprises Co. Ltd	Taiwan	/					
Mecmar Inc.	Taiwan				✓		
Midas Microelectronics Corp.	Taiwan		/				
Minami Audio Equipment Co. Ltd	Mainland China						
Moden Telecommunications Co. Ltd	Mainland China						
MTWO Technology Inc.	Taiwan						
Nagasaki IPC Tech. Corp.	Taiwan					/	
Naiko (Asia) Ltd	Hong Kong		1	/			
Nakagawa Electronics Ltd	Hong Kong						
Nange Electronics (Zhongshan) Co. Ltd	Mainland China				/		
Nanjing Electronic Devices Institute	Mainland China						
Nanjing Ke Min Electronic Co. Ltd	Mainland China						
Nantong Gaoxin Electronics Co. Ltd	Mainland China						
Netac Technology Co. Ltd	Mainland China					✓	
New Grand Tech (HK) Ltd	Hong Kong		/			<u> </u>	
Newision Tehnology Co. Ltd	Mainland China		· /				
Ningbo BestKey Electronic & Electrical Fty	Mainland China		•				
Ningbo East Electronics Ltd	Mainland China						
Northern Star Enterprise Co. Ltd	Hong Kong					✓	
Octekconn Enterprise Co. Ltd	Taiwan					•	✓
Okyo Denshi Ltd	Hong Kong						•
Omega Semiconductor Sdn Bhd	Malaysia						
Openbrain	South Korea						
Orient Power (Wuxi) Digital Technology Co. Ltd	Mainland China						
ORtek Technology Inc.	Mainland China				/		
Peacebay Power Sources Co. Ltd	Mainland China	/					
Pinshine Electronic & Plastic Products (Dongguan) Co. Ltd	Mainland China	V					
Planex Communicatons Inc.	Taiwan						
Plutec	South Korea						
Polestar Technology Corp.	Taiwan				/		
Posdata	South Korea						
Putin Electrical Technology Co. Ltd	Mainland China						

^{*} The list includes home appliances, gaming products, LCD modules, Bluetooth modules, blank media, microchips, power supplies, switches, metal domes and filters. Visit www.globalsources.com and use Supplier Search to inquire from companies listed in this report.

Electronic security	Home A/V products	LEDs & LED displays	Media players and	Networking products	Passive components	Personal electronics	Printed circuit	Telecom products	Other products*
security	products	uispiays	recorders	products	components		boards	products	
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Company	Region	Batteries	Car electronics	Color TVs	Computer peripherals	Computer systems and components	Connectors
Qiaoxing Famous Science & Technology Co. Ltd (Import & Export Departement of Qiaoxing Group)	Mainland China						
Quito Technology Co. Ltd	Mainland China				✓	✓	
Radiant Battery (Fuzhou) Ltd	Mainland China	✓					
Rainsun Corp.	Taiwan						
Rayex Electronics Co. Ltd	China						
Ritek Corp.	Taiwan				✓		
Sanho Ostor Electronics Corp.	Mainland China						
Seecode Co. Ltd	South Korea						
Send-Victory Corp.	Taiwan					1	
SEP Electronic Corp.	Taiwan						
Sesh Electronic Corp.	Taiwan						
Shaanxi Huada Science & Technology Co. Ltd	Mainland China						✓
Shaanxi Linghua Electronic Co. Ltd	Mainland China		1	✓			
Shandong Zibo Dison Supply Co. Ltd	Mainland China	✓					
Shanghai 21st Century Electronic Equipment Co. Ltd	Mainland China						
Shanghai Angel Printer Supplies Co. Ltd	Mainland China				✓		
Shanghai Silbo Electric Lighting Co. Ltd	Mainland China						
Shanghai Tetronics Company Limited	Mainland China				✓		
Shanghai Universal Honour Electronics Co. Ltd	Mainland China						
Shantou S.E.Z. Wohing Radio & Video Co. Ltd	Mainland China						
Shenzhen Actiway Electronics Co. Ltd	Mainland China		1				
Shenzhen Aoge Electronic Ltd	Mainland China				✓		
Shenzhen Auder Electronics Co. Ltd	Mainland China						
Shenzhen Bohong Industry Co. Ltd	Mainland China						
Shenzhen Center Power Technology Co. Ltd	Mainland China	✓					
Shenzhen Chuangyin Industrial Co. Ltd	Mainland China						
Shenzhen Cleartop Technology Co. Ltd	Mainland China		✓				
Shenzhen D&S Industries Ltd	Mainland China					✓	✓
Shenzhen DSUS Technology Co. Ltd	Mainland China		✓				
Shenzhen DTC Ind. Co. Ltd	Mainland China						
Shenzhen EVOC Intelligent Technology Co. Ltd	Mainland China					✓	
Shenzhen GlorySky Electronic Co. Ltd	Mainland China						
Shenzhen Hanbao Technology Industrial Co. Ltd	Mainland China						
Shenzhen Huamao Electronics Co. Ltd	Mainland China						
Shenzhen ITZR Computer Technology Co. Ltd	Mainland China				✓		
Shenzhen Jiuzhou Information Technology Co. Ltd	Mainland China						
Shenzhen King Brother PCB Technology Co. Ltd	Mainland China						

³⁶ Global Sources

 $Visit\ www. global sources. com\ and\ use\ Supplier\ Search\ to\ inquire\ from\ companies\ listed\ in\ this\ report.$

Electronic security	Home A/V products	LEDs & LED displays	Media players and recorders	Networking products	Passive components	Personal electronics	Printed circuit boards	Telecom products	Other products*
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	Region	Batteries	Car electronics	Color TVs	Computer peripherals	Computer systems and components	Connectors
Shenzhen Kingdom Computer Co. Ltd	Mainland China					1	
Shenzhen Kingsun Enterprises	Mainland China	✓					
Shenzhen Mele Digital Technology Co. Ltd	Mainland China						
Shenzhen Newland Electronic Industry Co. Ltd	Mainland China		✓	1			
Shenzhen Newmi Digital Tech Co. Ltd	Mainland China			1			
Shenzhen Nostop Electric Co. Ltd	Mainland China						
Shenzhen Putian Lingyun Electronics Co. Ltd	Mainland China						
Shenzhen Qiaoyun Electronics Co. Ltd	Mainland China		✓	1		/	✓
Shenzhen Saitu Digital Technology Co. Ltd	Mainland China						
Shenzhen Shinelong Electronics Industrial Co. Ltd	Mainland China						
Shenzhen Shunhe Electronic Technology Co. Ltd	Mainland China		✓				
Shenzhen Sign Electronics Co. Ltd	Mainland China						
Shenzhen Sun Lynn Circuits Electronics Co. Ltd	Mainland China						
Shenzhen Sunspring Technology Co. Ltd	Mainland China				✓		
Shenzhen TAT Electronics Co. Ltd	Mainland China				✓		
Shenzhen Topmay Industrial Co. Ltd	Mainland China						
Shenzhen Wabony electronic Co. Ltd	Mainland China						
Shenzhen Weichengpeng Electronics Co. Ltd	Mainland China						
Shenzhen Xixing Electronic Co. Ltd	Mainland China	✓					
Shenzhen Zhengtong Group Ltd	Mainland China				✓		
Shunde Baling Group (SME)	Mainland China					✓	
ShunLi Plastic Metal Mfy	Mainland China		✓			1	✓
Sky's Microwave Co. Ltd	Mainland China						
Skyworth Digital Technology (Shenzhen) Co. Ltd	Mainland China						
Smart Good Display Ent. Ltd	Mainland China						
Sodiff	South Korea			1			
Something High Electric (Xiamen) Co. Ltd	Mainland China	✓					
Speed Infotech Co. Ltd	Mainland China						
Steelmate Co. Ltd	Mainland China		✓				
Sunkwang Electronics Co. Ltd	South Korea						
Sunmol Battery Co. Ltd	Mainland China	✓					
Sunny Young Enterprise Co. Ltd	Taiwan				✓		
Suntech Development Co. Ltd	Hong Kong						
SunTx System Co. Ltd	Taiwan						
Supercom Electron Co. Ltd	Taiwan						
SuperOn Technology Co. Ltd	Taiwan						

^{*} The list includes home appliances, gaming products, LCD modules, Bluetooth modules, blank media, microchips, power supplies, switches, metal domes and filters. Visit www.globalsources.com and use Supplier Search to inquire from companies listed in this report.

Electronic	Home A/V	LEDs & LED	Media	Networking	Passive	Personal	Printed	Telecom	Other products*
security	products	displays	players and recorders	products	components	electronics	circuit boards	products	Other products
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Company	Region	Batteries	Car electronics	Color TVs	Computer peripherals	Computer systems and components	Connectors
Suzhou Citech Co. Ltd	Mainland China						
Systems and Technology Corp.	Taiwan						
T.A. Technologies Int'l Ltd	Mainland China				✓		
Taitien Electronics Co. Ltd	Taiwan						
Taizhou Kangpai Capacitor Co. Ltd	Mainland China						
Tat Shing Rubber Mfg	Hong Kong						
TCL Communication Equipment (Huizhou) Co. Ltd	Mainland China						
TCL Low-Voltage Appratus (Wuxi) Co. Ltd	Mainland China						
TE Group	Mainland China, HK, Australia, US					1	✓
Team Young	Mainland China						
TechMaster (HK) Electronics Co. Ltd	Hong Kong						
TechNexion Ltd	Taiwan					✓	
Technik Industrial Co. Ltd	Hong Kong						✓
Techwin Communications Co. Ltd	Taiwan						
Tekmall Enterprise Co. Ltd	Taiwan					✓	
The Youngfor Corp.	Taiwan						✓
Tianjin Printronics Circuit Corp.	Mainland China						
Tianyi Communication Co. Ltd	Mainland China						✓
Tocad Energy (Zhuhai) Co. Ltd	Mainland China	✓					
Tongxiang 4Q Electronics Co. Ltd	Mainland China					✓	
Toyo LED Electronics Ltd	Hong Kong						
TP-Link Technologies Co. Ltd	Mainland China						
Traco Ltd	Hong Kong	✓	✓	1	✓	✓	✓
Transcend Information Inc.	Taiwan				✓		
Trantek Electronics Co. Ltd	Mainland China						
Tronic Technology Global Ltd	Mainland China	1					
True Tone Industries Ltd	Hong Kong						✓
Ultima Electronic Corp.	Taiwan						
UNI Precision Ind. Ltd	Hong Kong				✓		
Uniohm Electronics Industry Co. Ltd	Mainland China						
Union Optronics Corp.	Taiwan						
Union Suppo Battery (Liaoning) Co. Ltd	Mainland China	1					
Unitop Electronics Co. Ltd	Taiwan						✓
Uniwell Electronic Ltd / UniFlex Electronic Ltd	Hong Kong						
Vertex Computer Industry Co. Ltd	Mainland China				1		
Vibrant Development Ltd	Mainland China						
Visson Technologies Inc.	Taiwan		✓				
Walta Electronic Co. Ltd	Taiwan						✓
Waysion Technology (Xiamen) Co. Ltd	Mainland China		1				

^{*} The list includes home appliances, gaming products, LCD modules, Bluetooth modules, blank media, microchips, power supplies, switches, metal domes and filters. Visit www.globalsources.com and use Supplier Search to inquire from companies listed in this report.

Electronic security	Home A/V products	LEDs & LED displays	Media players and recorders	Networking products	Passive components	Personal electronics	Printed circuit boards	Telecom products	Other products*
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Company	Region	Batteries	Car electronics	Color TVs	Computer peripherals	Computer systems and components	Connectors
Weifang IEA Electro-Acoustic Co. Ltd	Mainland China		✓				
Weihai Daewoo Electronics Co. Ltd	Mainland China			✓	✓		
Weilong Industrial Hardware Co. Ltd	Mainland China				✓		
Winpex Technology Inc.	Taiwan		✓				
Wooyong Digital	South Korea						
World Mastery Technology Ltd	Hong Kong						
Wuxi Dexun Micro Motor Co. Ltd	Mainland China						
Wuxi Mind Electric Co. Ltd	Mainland China						
Wuxi Xuyang Electronic Co. Ltd	Mainland China						
X&F Electronics Co. Ltd	Mainland China				✓		
Xellex Battery Co. Ltd	Mainland China	✓					
Xiamen Faratronic Co. Ltd	Mainland China						
Xiamen G&P Electronics Co. Ltd	Mainland China						
Xiamen Honch Industrial Suppliers Co Ltd	Mainland China						
Xiamen Hongfa Electroacoustic Co. Ltd	Mainland China						
Xiamen Hualian Electronics Co. Ltd	Mainland China						
Xiamen Ocular Optics Co. Ltd	Mainland China						
Xiamen Zettler Electronic Co. Ltd	Mainland China						
Xian Connector Technology Ltd	Mainland China						✓
Xinxiu Leather Fty	Mainland China						
Yangzhou Yangjie Electronic Co. Ltd	Mainland China		1				
Yealink Network Technology Co. Ltd	Mainland China						
Yeong Yang Technology Co. Ltd	Taiwan				✓		
YHT Electronic Technology Ltd	Mainland China						
Yii Sheeny Enterprise Co. Ltd	Taiwan						
Yiinpin Electronics (Shenzhen) Co. Ltd	Mainland China						
YiJhan Technology Co. Ltd	Taiwan						
Zhejiang HKE Relay Co. Ltd	Mainland China						
Zhejiang Sifang Electron Co. Ltd	Mainland China						
Zhejiang Zhenhua Electronics Co. Ltd	Mainland China			1		/	✓
ZhengSheng Photoelectric Instrument Co. Ltd	Mainland China						
Zhongshan Broad-Ocean Motor Co. Ltd	Mainland China						
Zhongshan K-mate Electronics Co. Ltd	Mainland China		/				
Zhongshan Leetac Electronics Co. Ltd	Mainland China						
Zhuhai Leaguer Capacitor Co. Ltd	Mainland China						
Zinwell Corp.	Mainland China						
ZKSoftware Inc	Mainland China						
Zonkas Electronic Co. Ltd	Taiwan						

^{*} The list includes home appliances, gaming products, LCD modules, Bluetooth modules, blank media, microchips, power supplies, switches, metal domes and filters. Visit www.globalsources.com and use Supplier Search to inquire from companies listed in this report.

Electronic security	Home A/V products	LEDs & LED displays	Media players and recorders	Networking products	Passive components	Personal electronics	Printed circuit boards	Telecom products	Other products*
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