

Next-Gen Components

Wearables

- ✓ Key trends
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- ✓ 59 Supplier profiles
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global  sources

Electronic Components

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Next-Gen Components

Wearables

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Thinner, curved, bendable batteries for wearable electronics

Suppliers keep up with the design trends in wearable devices to corner a share of the rapidly expanding sector.

Manufacturers of batteries in China are stepping up R&D and production for the burgeoning wearable electronics market. They are positioning the Li-polymer category for the application, building on its advantages of being more lightweight than traditional Li-ion kinds, and flexibility in terms of shapes and sizes. On the agenda is the release of slimmer, curved and bendable types.

Suppliers are highlighting thinner profiles than the current popular options 2, 3, 4 and 5mm. Some can offer units 0.5 to 1.3mm in thickness.

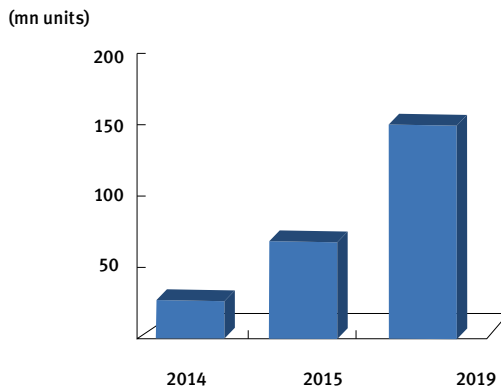
Targeting wrist-worn products, makers are adding curved batteries to their range of flat variants. The devices, which include bands, bracelets and watches, are expected to represent more than 80 percent of wearables shipments. There are companies that also turn out crescent-shaped and round versions, and ultranarrow models with a minimum width of 8mm.

For the still nascent flexible battery segment, R&D led by global players is under way. One breakthrough is from Taiwan's ProLogium, which introduced the world's first FPC lithium-ceramic battery or FLCB. The product uses a flexible PCB as substrate and packaging material, and is manufactured by employing printing and coating methods. Its capacity reaches up to 90 percent of regular lithium counterparts. The company is working to realize 1.5 times the capacity. Compared with liquid-based lithium varieties of the same size and capacity, FLCBs are only 0.2 to 0.45mm in thickness.

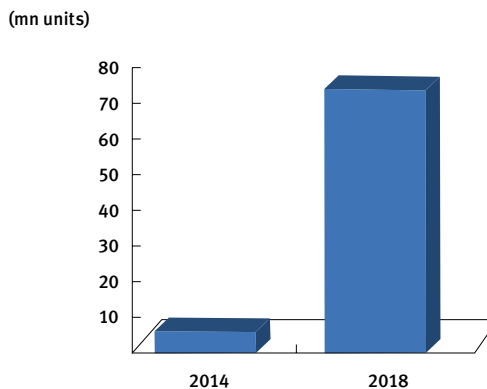
In mainland China, a few companies have picked up the lead and followed suit. They include Wuhan Atmek, which has developed bendable batteries with 1,000mAh capacity. The maker plans to launch them on the market in coming months.

Fueling great interest in this application is the huge growth projection based on global shipments. Wearable devices will hit 72.1 million units by the end of 2015, leaping 173 percent from the previous year, according to IDC. In 2019, the forecast is 155.7 million units for a CAGR of nearly 43 percent in 2014-19.

Global shipments of wearable electronics



Batteries for wearable electronics



Wearable devices are anticipated to post more than 40 percent CAGR between 2014 and 2019, presenting vast opportunities for the battery market. By 2018, the Li-polymer category will dominate sales with a 73 percent share.

From this, worldwide sales of corresponding batteries are expected to skyrocket from \$6 million in 2014 to \$77 million by 2018, according to IHS Technology. Li-polymer units will account for 73 percent of total battery revenue by the period's end, said IDC.

In the mainland, the estimated annual rise in battery revenue will surpass 40 percent in the years ahead. With the release of Apple's first smartwatch, makers are already counting on as much as 100 percent surge in sales of their Li-polymer models for wearable electronics by end-2015.

The mainland is responsible for more than 70 percent of global output for batteries used in such devices.

About 300 suppliers make up the pool, the majority of which are locally owned.

Foreign companies, including Sony, Samsung SDI, LG Chem and those from Taiwan and Hong Kong, are the rest.

Makers are mostly based in the Pearl River and Yangtze River Delta regions, and the Bohai Bay Rim Economic Region, particularly the provinces of Guangdong and Jiangsu, and Tianjin.

Guangdong is the key hub, gathering about two-thirds of the companies in the cities of Shenzhen, Dongguan and Zhongshan.

Primary, rechargeable types

For wearable electronics, mainland manufacturers offer primary and rechargeable batteries.

Button cells include CR2032, CR2025, CR1620 and CR1220, and have nominal capacity ranging from 40 to

230mAh. These 3V products suit wristbands.

Li-polymer units are the mainstream rechargeable kinds, with production share exceeding 90 percent. These have housings made of soft aluminum foil. The nominal voltage is 3.7V and capacity 40 to 600mAh.

Li-polymer batteries for wristbands are 2 to 3mm-thick and provide 40 to 150mAh, while versions for smartwatches are 4 to 5mm and 200 to 600mAh.

YJ's YJ302030 Li-polymer model has 130mAh and 3.7V nominal capacity and voltage. Its life span surpasses 500 cycles. Dimensions are 3x20x30mm.

In general, local makers can release units based on buyers' shapes, sizes and capacity.

LiCoO₂ and graphite are the common anode and cathode materials used in Li-polymer batteries. Manufacturers obtain the former from domestic providers, mainly Hunan Shanshan Toda, Hunan Reshine, Beijing Easpring and Ningbo Jinhe.

Electrolytes and separators come from the mainland as well, with foreign companies Asahi, Celgard and Tonen remaining the key source of the latter input.

Battery suppliers continue to benefit from the localization of materials, helping them keep prices competitive despite higher labor costs.

Production of LiCoO₂ is on the rise. Volume in 2014 climbed 13 percent YoY to 43,000 tons, while that of cathode inputs jumped to 51,600 tons.

In separators, the significant increase in output yielded 420 million square meters or a 62 percent boost.

Supplier comparison table

Company name	Supplier ranking	Year established	Main products & services	Main markets	Total annual sales (\$mn)	Total annual exports (\$mn)	
Ace Sound Enterprise Co. Ltd	★★★★☆	1976	Battery holders, snaps, contacts; stamped parts	Europe, North America	1.3	0.5	CONTACT SUPPLIER
Attend Technology Inc.	★★★★☆	2002	Nano SIM card sockets	Asia, Australasia, Central/South America, Europe, Middle East/Africa, North America	10	5.4	CONTACT SUPPLIER
Bailin Electronic Co. Ltd	★★★★☆	2007	Tilt, vibration, optical, tactile, pushbutton switches; vibration sensors	Europe, North America	20	10	CONTACT SUPPLIER
Canal Components Inc.	★★★★☆	1981	Rocker switches	Asia, Central/South America, North America, Western Europe	4 to 5	1.7	CONTACT SUPPLIER
CC Ohm Enterprise Co. Ltd	★★★★☆	1986	Resistors, capacitors	Asia, Europe	8.8	7.1	CONTACT SUPPLIER
Cfe Corp. Co. Ltd	★★★★☆	1989	Magnetic, pogo pin connectors	Asia, Europe, US	10	7	CONTACT SUPPLIER
Chant Sincere Co. Ltd	★★★★☆	1985	USB 3.1, type C connectors	North America	65	52	CONTACT SUPPLIER
Chu Yuen Enterprise Co. Ltd	★★★★☆	1987	Micro-USB connectors	Australasia, Central/South America, Europe, Middle East/Africa, North America	0.4 to 0.5	0.37	CONTACT SUPPLIER
Cirket Electronics Co. Ltd	★★★★☆	2004	PCBs, PCB assemblies	Europe, Israel	10	10	CONTACT SUPPLIER
Comfortable Electronic Co. Ltd	★★★★★	1972	Battery holders, snaps, clips; metal contacts; wire harnesses, assemblies	Asia, Europe, North America	11	9.5	CONTACT SUPPLIER
Componex Electronic Mfg Co. Ltd	★★★★☆	2008	Capacitors	Middle East, North & South America, South Asia	10	8	CONTACT SUPPLIER

Global Sources supplier rankings

★★★★★

Suppliers are ranked using a 6-star ranking system. Companies with a higher star ranking provide more business information and verification reports on their Global Sources online homepages. Suppliers rated 5 or 6 stars have a Credit Check report from First Advantage or Sino-Trust and a Supplier Capability Assessment report provided by Bureau Veritas online. The rankings are correct at the time of publication and may be subject to change.

Company name	Supplier ranking	Year established	Main products & services	Main markets	Total annual sales (\$mn)	Total annual exports (\$mn)	
Core-Tech Corp.	★★★★☆	1985	EMI filters	Asia, Europe	9		CONTACT SUPPLIER
CviLux Corp.	★★★★☆	1990	Wire harnesses	Asia, Australasia, Central/South America, Europe, Middle East/Africa, North America	75	56	CONTACT SUPPLIER
DLC Display Co. Ltd	★★★★☆	1998	LCD modules	Asia, Europe, North America	50	45	CONTACT SUPPLIER
DME Microelectronics Ltd	★★★★☆	2013	Bluetooth modules	Asia	5	5	CONTACT SUPPLIER
Dongguan DeYu Silicone Rubber Industrial Co. Ltd	★★★★☆	2008	Silicone products	Europe, North America	35	25	CONTACT SUPPLIER
Dongguan Foxron Precision Metal Parts Co. Ltd	★★★★★	2006	Precision metal, CNC machining, aluminum parts	East Asia, Europe, North America	15	10	CONTACT SUPPLIER
Dongguan Heyi Electronics Co. Ltd	★★★★☆	2006	USB cables, in-car chargers, mobile device accessories	Europe, North America	12	3	CONTACT SUPPLIER
Dongguan Large Electronics Co. Ltd	★★★★★	2002	Li-ion batteries	Europe, North America	80	25	CONTACT SUPPLIER
Dongguan LDZY Electronics Co. Ltd	★★★★☆	2003	Connectors	Europe, North America	15	10	CONTACT SUPPLIER
Dongguan Tangxia Shuangxin Hardware Products Fty	★★★★★	2000	Metal hardware products	Asia, Europe, North America	10	8	CONTACT SUPPLIER
Excel Cell Electronic Co. Ltd	★★★★★	1981	Switches, relays, resettable fuses; terminal blocks, connectors	Asia, Europe	57	41	CONTACT SUPPLIER
Faddy Precision Industry Co. Ltd	★★★★☆	1985	RF connectors, cables, cable assemblies, adapters	Europe, North America, South Africa, Southeast Asia	5	4	CONTACT SUPPLIER

Buyer's Guide

Company name	Supplier ranking	Year established	Main products & services	Main markets	Total annual sales (\$mn)	Total annual exports (\$mn)	
Gist Enterprise Co. Ltd	★★★★☆☆	1996	PCBs, PCB assemblies	Asia, North America	3.25	3	CONTACT SUPPLIER
Guangdong Kingshine Electronic Technology Co. Ltd	★★★★★★	1994	PCBs	Europe, North America	180	50	CONTACT SUPPLIER
Hisetec Electronic Co. Ltd	★★★★★★	1985	Connectors, wire harnesses, cable assemblies	Asia, Australasia, Europe, Central/South America, North America	20	15	CONTACT SUPPLIER
Hitano Enterprise Corp.	★★★★☆☆	1980	Inductors, capacitors	Europe	19.9	15	CONTACT SUPPLIER
Iexcellence Technology Co. Ltd	★★★★☆☆	2007	OLED display modules	Asia, Europe, North America	700	30	CONTACT SUPPLIER
INeed (HK) Ltd	★★★★☆☆	2010	Micromotors	Asia, Australia, Europe, US	23	5	CONTACT SUPPLIER
Jave Yuan Electric Wire Co. Ltd	★★★★☆☆	1980	2-core OFC speaker cables	Asia, Australasia, Central/South America, Europe, Middle East/Africa, North America	5	3.8	CONTACT SUPPLIER
Kuantech (Shenzhen) Co. Ltd	★★★★★★	1999	Switching power supplies, adapters, USB chargers	Asia, Europe, North America	1.2bn	0.8bn	CONTACT SUPPLIER
Lin Horn Technology Co. Ltd	★★★★☆☆	1995	PCBs	North America, Western Europe	45	20	CONTACT SUPPLIER
Linkworld Industrial Co. Ltd	★★★★☆☆	2005	HDMI, USB, DisplayPort, LAN cables; wire harnesses	Asia, Australasia, North America, Western Europe	18.3	11	CONTACT SUPPLIER
Megatone Electronics Corp.	★★★★★★	1973	PCB assemblies	Central/South America, Europe, Middle East/Africa, North America	45 to 50	45 to 50	CONTACT SUPPLIER

Company name	Supplier ranking	Year established	Main products & services	Main markets	Total annual sales (\$mn)	Total annual exports (\$mn)	
Merrich Plastic & Electronic Co. Ltd	★★★★☆☆	1998	Plastic parts for consumer electronics	Asia, Australasia, Europe, Middle East/Africa, North America	12	12	CONTACT SUPPLIER
Morethanall Co. Ltd	★★★★☆☆	1983	USB type C connectors	Asia, Australasia, Central/South America, North America, Western Europe	25 to 29	25 to 29	CONTACT SUPPLIER
Palm Technology Co. Ltd	★★★★☆☆	1996	LCD/LCM, TFT modules; OLED displays; touch panels	Asia, Australasia, Europe, North America	35	20	CONTACT SUPPLIER
SC Precision Industrial Co. Ltd	★★★★☆☆	1980	Phone jacks	Asia, Europe, North America	40 to 45	28	CONTACT SUPPLIER
Shanpu Co. Ltd	★★★★☆☆	1975	Illuminated pushbutton switches	Asia, Australasia, Central/South America, Europe, Middle East/Africa, North America	1 to 2	1 to 2	CONTACT SUPPLIER
Shenzhen BAK Technology Co. Ltd	★★★★☆☆	1997	Lithium batteries, power banks	Europe, North America	9	9	CONTACT SUPPLIER
Shenzhen Crystal Technology Industrial Co. Ltd	★★★★☆☆	1989	Crystal oscillators, filters, SAW resonators	Europe, North America	18	10	CONTACT SUPPLIER
Shenzhen FMC Electronics Co. Ltd	★★★★☆☆	2007	Antennas, RF cable assemblies and connectors, coaxial cables	Europe, South America	5	1	CONTACT SUPPLIER
Shenzhen GUCE Technology Co. Ltd	★★★★☆☆	2006	Cables, power transformers, AC/DC adapters, LED drivers	Europe, Japan, Taiwan, US	400	300	CONTACT SUPPLIER
Shenzhen Hongmy Precision Circuit Co. Ltd	★★★★☆☆	2003	Bare PCBs	Asia, Europe, North America	14.2	2.8	CONTACT SUPPLIER

Company name	Supplier ranking	Year established	Main products & services	Main markets	Total annual sales (\$mn)	Total annual exports (\$mn)	
Shenzhen Sunshine Circuits Technology Co. Ltd	★★★★★	2001	PCBs	North America, Western Europe	88	84	CONTACT SUPPLIER
Shenzhen Torvenics Electronic Co. Ltd	★★★★☆	2006	USB, RJ-45, D-sub, coaxial connectors; pin, female headers	Asia, North America, West Europe	200	130	CONTACT SUPPLIER
SWB Connectors Co. Ltd	★★★★☆	2000	Connectors, terminals, headers, housings, wafers	Asia, Europe, North America	2 to 3		CONTACT SUPPLIER
Switchtech Enterprise Ltd	★★★★★	1992	Connectors, switches	Central/South America, Japan, Middle East/Africa, North America, Western Europe	0.6 to 0.7		CONTACT SUPPLIER
Targ Yu Enterprise Co. Ltd	★★★★☆	1994	Connectors	Europe, Korea, Mainland China, North America, Taiwan	22.5	0.8	CONTACT SUPPLIER
Thunder Components Ltd	★★★★☆	1971	Chip resistor networks	Asia, Australasia, Central/South America, Europe, Middle East/Africa, North America	10 to 15	10 to 15	CONTACT SUPPLIER
Top Dynamic Enterprises Ltd	★★★★☆	2012	Subminiature, ultrathin diodes, transistors; high-integrated packages	Germany, Mainland China, South Korea, Taiwan, Thailand	5 to 6		CONTACT SUPPLIER

Company name	Supplier ranking	Year established	Main products & services	Main markets	Total annual sales (\$mn)	Total annual exports (\$mn)	
Townes Enterprise Co. Ltd	★★★★☆	1991	PCB connectors	Europe, North America	8	6	CONTACT SUPPLIER
Up Tek's Co. Ltd	★★★★★	1987	RF modules, microprocessors, ICs, transistors, diodes; capacitors, varistors, potentiometers, resistors, inductors, thyristors; switches, sensors; connectors; filters, oscillators	Asia, Central/ South America, Europe, Middle East/Africa, North America	12	9	CONTACT SUPPLIER
Wells Electronic Technology Ltd	★★★★☆	2000	PCB design, assemblies	Europe, North America	0.6 to 0.7		CONTACT SUPPLIER
Win Industry Co. Ltd	★★★★★	1978	Plastic parts for consumer electronics	Asia, Central/ South America, Europe, Middle East/Africa, North America	15 to 20	15 to 20	CONTACT SUPPLIER
Wuzhu Technology Co. Ltd	★★★★☆	1993	PCBs	Asia, Europe, North America	230	140	CONTACT SUPPLIER
Xiamen Orientronic Co. Ltd	★★★★☆	2006	PCB assemblies	Europe, North America	100	100	CONTACT SUPPLIER
YJ Power Group Ltd	★★★★☆	2003	PCB assemblies	Europe, North America	1.7bn	180	CONTACT SUPPLIER
You Eal (HK) Ltd	★★★★☆	1986	Heart rate monitor units	Europe, North America	9 to 10		CONTACT SUPPLIER

Next-gen components for wearables



SMD clip for lithium CR1220 coin cell

Ace Sound Enterprise Co. Ltd (Taiwan)

★★★★☆

[CONTACT SUPPLIER](#)

Model SN-CP1220

SMD battery clip for lithium CR1220 coin cell; 0.25mm-thick phosphor bronze; 19.6x13.2x3.2mm; RoHS



SMD Nano SIM card socket

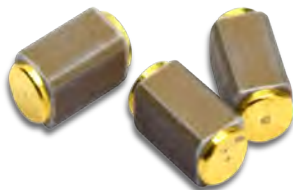
Attend Technology Inc. (Taiwan)

★★★★☆

[CONTACT SUPPLIER](#)

Model 115P-AEA0

SMD Nano SIM card socket; 6 pins; 0.5N minimum force; 15VDC, 0.5A; 500VAC/min withstand voltage; 50 to 100mohm contact, 1,000Mohm insulation resistance; -30 to 85 C operating, 260 C IR reflow soldering temperatures; 3,000-cycle life span



Spring-vibration switch meets RoHS

Bailin Electronic Co. Ltd (Mainland China)

★★★★☆

[CONTACT SUPPLIER](#)

Model SW580, SW360, SW180, BL2500, BL600

Spring-vibration switch; metal; for toys, handheld devices, flashing clothing and shoes, power banks; 3.2x8mm; RoHS



IP67-rated rocker switch

Canal Components Inc. (Taiwan)

★★★★☆

[CONTACT SUPPLIER](#)

Model X7 Series (X7-230***/X7-H30***)

Rocker switch; single- or double-pole; on-on, on-off-on; 125/250VAC 16A, 125VAC 20A, 250VAC 16(4)A, 6 to 30VDC 16A; quick-connect terminals; 10,000 cycles; plastic actuator, housing; IP67 rating



Chip resistor supports -55 to 125 C

CC Ohm Enterprise Co. Ltd (Taiwan)

CONTACT SUPPLIER

★★★★☆☆

Model RC

Thick-film chip resistor; 0201, 0402, 0603, 0805, 1206, 1210, 2510, 2512 sizes; 0.0625, 0.1, 0.125, 0.25, 0.5, 1W; 50, 100, 150, 200V maximum operating, 100, 200, 300, 400V maximum overload voltage; -55 to 125 C operating temperature



Magnetic connector for chargers

Cfe Corp. Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆☆

Model CM-BP23811 & M-BP23801-06254H0B

Magnetic connector; for wearable, consumer electronics, smart appliances, chargers; six, nine brass pins; white PVC jacket; alloy and aluminium housing; RoHS



USB 3.1 type C connector

Chant Sincere Co. Ltd (Taiwan)

CONTACT SUPPLIER

★★★★☆☆

Model USB 3.1 Type C Connector

USB 3.1 type C connector; brass contacts, 80 to 160µm nickel underplating, 30µm PdNi+2µm selective gold contact area, 100 to 200µm lead-free tin solder area; steel shell; black thermoplastic insulator; 10,000 insert/withdraw cycles



Micro-USB connector with IP67 rating

Chu Yuen Enterprise Co. Ltd (Taiwan)

CONTACT SUPPLIER

★★★★☆☆

Model HY-USB-1178M

Micro-USB connector; 30VAC, 1A signal, 1.8A power; 100VAC/min withstand voltage; 30mohm initial, 50mohm maximum contact, 100Mohm minimum insulation resistance at 500VDC; 35N insert, 8N withdraw force; IP67 rating



PCB assembly based on FR-4 board

Cirket Electronics Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆☆

Model PCBA

PCB assembly; for hardware part of HackRF One software-defined radio; FR-4 base; ENIG surface finish; 2.95mil minimum line width/spacing; 2oz copper, 1.6mm board thickness; 0.2mm minimum hole size; 140x75mm board dimensions



Battery holder uses nickel plating

Comfortable Electronic Co. Ltd (Taiwan)

CONTACT SUPPLIER

★★★★★

Model BHC-15650-1P

Battery holder; contacts with nickel plating for corrosion resistance; large contact area for enhanced current flow, reduced electrical resistance



Flame-retardant film capacitor

Componex Electronic Mfg Co. Ltd

(Mainland China)

CONTACT SUPPLIER

★★★★★

Model 104K310V

Metallized polypropylene capacitor; high stability; self-healing; active, passive flame resistance; CQC, ENEC, KC, UL



Snap-on ferrite core for round cables

Core-Tech Corp. (Taiwan)

CONTACT SUPPLIER

★★★★★

Model EMI Suppressor

Ferrite core for EMI suppression; snap-on type; precision formed to prevent damage to wire insulation of round cables; 5 to 15mm inner diameter



Wire harness in custom specifications

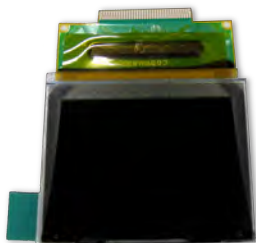
CviLux Corp. (Taiwan)

CONTACT SUPPLIER

★★★★☆

Model Wire Harness

Wire harness; customizable; versions for robots, automotive, home appliances, LED applications available



160x128-pixel OLED display module

DLC Display Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆

Model DLC0145BNOF

OLED display module; 1.45in; 160x128 pixels, 262,144 colors; 6/8/9-bit RGB, 6800/8080 parallel parallel, 4-wire SPI; -30 to 70 C operating, -40 to 80 C storage temperatures



1.8 to 4.3V Bluetooth Smart module

DME Microelectronics Ltd (Hong Kong)

CONTACT SUPPLIER

★★★★☆☆

Model DME 1018 Series

Bluetooth Smart 4.2 module; 1.8 to 4.3V; -20 to 10dBm programmable transmission power; up to 150m open-field operating distance; for mice, keyboards, selfie sticks, wristbands, anti-loss devices, beacons, LED light controls, smart homes



Silicone watch band

Dongguan DeYu Silicone Rubber Industrial Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆☆

Model DY012

Watch band; 100 percent silicone, NBR, EPDM, SBR or NR; 80 shore A hardness; food-grade; -40 to 200 C typical temperature; 21.8g



Aluminum alloy case for smartwatches

Dongguan Foxron Precision Metal Parts Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★★★

Model Aluminum Smart Watch Case

Smartwatch case; AL6063 T5 aluminum alloy; clear anodized surface treatment; diamond-cut chamfers; CNC-machined, bead-blasted; RoHS



4-port USB hub accepts type C

Dongguan Heyi Electronics Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆☆

Model HY-TC-05

4-port USB hub; type C port; iOS, Windows, Android OS; ABS housing; 85g; RoHS



Ultrathin Li-polymer battery

Dongguan Large Electronics Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★★★

Model 042255/20mAh/3.7V

Li-polymer battery; 15 to 300mAh capacity; 0.2C standard, 0.5C maximum charging, 0.2C standard, 1C maximum discharging current; 0.4mm minimum thickness; for wearables, smart credit cards, mobile POS devices



Wire-to-board connector

Dongguan LDZY Electronics Co. Ltd

(Mainland China)

★★★★☆☆

Model A2541

Wire-to-board connector; brass pin; nylon 4T wafer; 250V, 3A; 1,500VAC/min withstand voltage; ≤20mohm contact resistance; -40 to 105 C operating temperature; UL

CONTACT SUPPLIER



CNC-machined part complies with RoHS

Dongguan Tangxia Shuangxin Hardware

Products Fty (Mainland China)

★★★★★★

Model SX-CL-0001

CNC-machined part; brass, stainless steel, nylon materials; 12x6mm; 8 to 10g; RoHS

CONTACT SUPPLIER



DIP switch has gold-plated contacts

Excel Cell Electronic Co. Ltd (Taiwan)

★★★★★★

Model EHS

DIP switch; 0.05mm pitch; gold-plated contacts; tape-sealed top to withstand wave soldering, board washing; UL94V-0-rated plastic housing

CONTACT SUPPLIER



Micro coaxial cable assembly

Faddy Precision Industry Co. Ltd (Taiwan)

★★★★☆☆

Model IPX-113-25

Micro coaxial cable assembly; for up to 6GHz signal jumpers or antennas; IPX or UFL connector; 0.8, 1.13 or 1.32mm cable length; REACH, RoHS

CONTACT SUPPLIER



PCB assembly for smart insoles

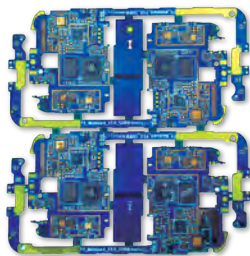
Gist Enterprise Co. Ltd (Taiwan)

★★★★☆☆

Model RTS-003

PCB assembly for smart insoles; integrates sensors that measure impact and pressure while walking, running or jogging, and transmit data to smartphone via app

CONTACT SUPPLIER



High-density PCB features eight layers

Guangdong Kingshine Electronic Technology Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★★

Model #4546

High-density multilayer PCB; 8 layers; ENIG+OSP surface finish; 0.2mm minimum via size; 1.5±0.15mm finished board thickness; UL E358874



HDMI cable with USB, Mini-B plugs

Hisetec Electronic Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★★

Model HDMI AM/AM+USB2.0 AM/Mini B Cable

HDMI cable assembly; type A, male connectors, USB 2.0 type A male, Mini-B connectors; PVC, PE, PP, ABS; 300mm cable length; 100g; RoHS; for 3D gaming devices



Chip inductor has 90 to 538nH

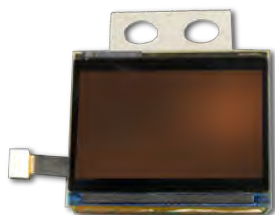
Hitano Enterprise Corp. (Taiwan)

CONTACT SUPPLIER

★★★★☆

Model XSA Series

Chip inductor; air coil spring type; 90 to 538nH inductance; ±2, ±5, ±10 percent tolerance; 50MHz test frequency; 2A to 3.5A; 4225 size



Smart watch AMOLED display module

Iexcellence Technology Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆

Model IEX163QLN01

AMOLED display module for smart watches; 1.63in; 320x320-pixel resolution, 16.7 million colors; 300cd/sqm brightness; MIPI interface; 29.28x29.28mm active area; 32.08x36.48x0.7mm panel



Micromotor has 9,000rpm rated speed

INeed (HK) Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆

Model C0827BE03L27

Micromotor; 9,000rpm minimum rated speed; 1.2 to 1.5G acceleration; 3VDC rated voltage; 65mA maximum rated current; 150 to 200-hour life span at continuous run; 8mm diameter, 2.7mm thickness; 1g



Speaker cable with 2-core OFC wire

Jave Yuan Electric Wire Co. Ltd (Taiwan)

CONTACT SUPPLIER

★★★★☆

Model JY-01315PB

Speaker cable; 2-core oxygen-free bare copper wire; 3.5mm PVC insulation; 9mm outer jacket; 2x2.5sqmm



12V, 2.5A switching power supply

Kuantech (Shenzhen) Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★★

Model KSA50361200250HK

Switching power supply; 100 to 240VAC input voltage; 12V, 2.5A output; 36W; UL94V-0-rated plastic housing; UK pin; 20AWG cable, 2m in length; 97.5x47x33.6mm; BEAB, BSMI, CCC, CSA, Energy Efficiency Level VI, FCC, GS, PSE, REACH, RoHS, SAA



PCB has as small as 0.15mm holes

Lin Horn Technology Co. Ltd (Taiwan)

CONTACT SUPPLIER

★★★★☆

Model LH-3

PCB; CEM-1, CEM-3 or FR-4, halogen-free, Rogers, Isola, low-Dk, aluminum or BT base; HASL, lead-free HASL, OSP, immersion silver or tin, ENIG, carbon ink, selective gold, electrolysis gold plating surface finish; 0.15mm minimum drilled hole size; RoHS, UL, WEEE



USB 2.0 cable assembly

Linkworld Industrial Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆

Model LU2-015

USB 2.0 cable assembly; gold-plated pins; 28AWG bare-copper wire; TPE, PVC insulation; 150x15x9mm; 7g



PCB assembly for wearable devices

Megatone Electronics Corp. (Taiwan)

CONTACT SUPPLIER

★★★★★

Model USBVA6

PCB assembly; single-, double-sided or up to 12-layer board; SMT, auto-insertion; OEM/ODM orders accepted



Earphone shell in ABS, ABS+PC

Merrich Plastic & Electronic Co. Ltd

(Mainland China)

★★★★☆

Model avc.transform

Earphone shell; ABS or ABS+PC; 450x400x471mm, 400x400x346mm

CONTACT SUPPLIER



USB type C connector

Morethanall Co. Ltd (Taiwan)

★★★★☆

Model USB Connector C Type

USB type C connector; SPCC steel shell; PBT housing; 0.3mm-thick stainless steel clip; 1A maximum current; 750VAC/min withstand voltage; 30Mohm maximum contact, 1,000Mohm minimum insulation resistance; -40 to 85 C operating temperature

CONTACT SUPPLIER



LCD module has capacitive touch panel

Palm Technology Co. Ltd (Taiwan)

★★★★☆

Model Customized Design for PT0131212TC-A001

LCD module; 1.28in; capacitive touch panel; 128x128 dots; 23.04x23.04mm active area; 23.2x24.8mm display area; 31.5x35.5x 5.68mm outline dimensions; -10 C to 60 C operating, -20 to 70 C storage temperatures

CONTACT SUPPLIER



2.5mm phone jack

SC Precision Industrial Co. Ltd (Taiwan)

★★★★☆

Model SCJ225P0

Phone jack; 2.5mm; phosphor bronze contacts, brass/copper alloy terminals; thermoplastic housing; 0.4 to 2kg initial insert/withdraw force; 500VAC/min withstand voltage at 60Hz; 30mohm maximum contact, 100mohm minimum insulation resistance

CONTACT SUPPLIER



Tactile switch lasts 1 million cycles

Shanpu Co. Ltd (Taiwan)

★★★★☆

Model SPH Series

Illuminated push-button tactile switch; SPST; 230±60gf operating force; 0.3mm tactile, 0.1mm full travel; 12VDC, 50mA; 100mohm maximum contact resistance; -10 to 60 C operating temperature; 1 million-cycle life span

CONTACT SUPPLIER



Li-polymer battery provides 300mAh

Shenzhen BAK Technology Co. Ltd
(Mainland China)

CONTACT SUPPLIER

★★★★★☆☆

Model LP-402933-1S-3

Li-polymer battery; 300mAh; 3.7V; 1.11Wh; 80 percent efficiency after 300 cycles; PCB, three 50mm lead wires, Molex 51021 3-pin connector; 4.2x29.5x35mm; 7±0.4g; UL 1642, IEC 62133, UN38.3



SMD crystal in ceramic package

Shenzhen Crystal Technology Industrial Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆☆☆

Model 1612

SMD crystal; ceramic package; 24 to 54MHz; high precision, stability; 1.6x1.2x0.35mm; automatic mounting-, reflow soldering-compliant; RoHS



GPS ceramic patch antenna

Shenzhen FMC Electronics Co. Ltd
(Mainland China)

CONTACT SUPPLIER

★★★★☆☆☆

Model FYX-GPS-01

GPS ceramic patch antenna; 1,575.42MHz; 3.5dBi gain at zenith; 50ohm impedance; ≤1.5 VSWR; circular polarization; 360-degree elevation coverage; 0.8±0.05mm pin diameter; 25.2x25.2x4.2mm



Power transformer runs in -20 to 80 C

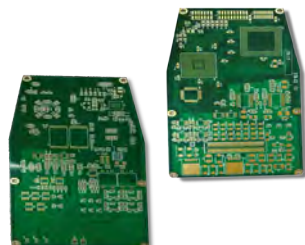
Shenzhen GUCF Technology Co. Ltd
(Mainland China)

CONTACT SUPPLIER

★★★★☆☆☆

Model F1919-LR6

Power transformer; compact; overvoltage, -current, short-circuit protection; -20 to 80 C operating temperature; imported components



8-layer PCB with ENIG surface finish

Shenzhen Hongmy Precision Circuit Co. Ltd
(Mainland China)

CONTACT SUPPLIER

★★★★☆☆☆

Model HMFR4M068

Multilayer PCB; 8 layers; FR-4 base; ENIG surface finish; 0.2mm minimum hole size; 1oz finished copper thickness; BGA technology; 85x52x1.6mm; UL



4-layer flexible PCB

Shenzhen Sunshine Circuits Technology Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★★

Model SS1508RF066

Flexible PCB; 4 layers; polyimide base; immersion gold surface finish; 3.9mil minimum line width/spacing; 2-stage multilayer flexible boards with laser blind vias; 0.3±0.1 mm board thickness



Micro-USB connector in DIP, SMD

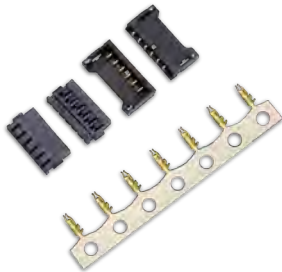
Shenzhen Torvenics Electronic Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆

Model MCFDX005-V8B-WG-4

Micro-USB connector; 5-pin type B, female DIP or SMD; C5191 copper alloy contacts, gold-plated contact area, tin-plated solder tails; nickel-plated C2680H copper alloy or SPCC steel shell



50VAC/DC, 2A wire-to-board connector

SWB Connectors Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆

Model 1224W

Wire-to-board connector; 1.2mm pitch; 50VAC/DC, 2A; 500VAC/min withstand voltage; 20Mohm maximum contact, 100Mohm minimum insulation resistance; -25 to 85 C operating temperature; 30 to 36AWG wire; RoHS



Operating switch lasts 100,000 cycles

Switchtech Enterprise Ltd (Taiwan)

CONTACT SUPPLIER

★★★★★

Model T-S 2.4X2.8X0.65 Type

Operating switch; 12VDC, 20mA; 200±50gf, 300gf±50gf operating, 30gf minimum release force; 100ohm contact, 100mohm insulation resistance; 100,000 cycles



Crimped wire-to-board connector

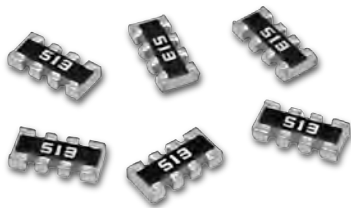
Targ Yu Enterprise Co. Ltd (Taiwan)

CONTACT SUPPLIER

★★★★☆

Model TU2013 Series

Wire-to-board connector; crimped type; 2mm pitch; 2A, 28AWG; 3A, 24 or 26AWG; RoHS



Chip resistor network operates on 50V

Thunder Components Ltd (Taiwan)

CONTACT SUPPLIER

★★★★☆

Model TC Series

Chip resistor network; eight pins, four rows; up to 1Mohm resistance range; ± 5 percent tolerance; ± 200 ppm/C temperature coefficient; 50V maximum operating, 100V overload voltage; 1/16W at 70 C; - 55 to 125 C operating temperature



Rectifier in SOD-123HE package

Top Dynamic Enterprises Ltd (Hong Kong)

CONTACT SUPPLIER

★★★★☆

Model DFN-1006-2B

Rectifier; SOD-123HE package; high power, forward surge current capability; for power supplies



SMD pin header with brass pins

Townes Enterprise Co. Ltd (Taiwan)

CONTACT SUPPLIER

★★★★☆

Model P127B-2xXXMXX-079-1X

SMD pin header; brass pin, UL94V-0-rated nylon 6T insulator; 1.27mm pitch; 100VAC/DC, 1A; 500VAC/min withstand voltage; 20Mohm maximum contact, 5,000Mohm minimum insulation resistance; -40 to 50 C operating temperature



Varistor supports 910V

Up Teks Co. Ltd (Taiwan)

CONTACT SUPPLIER

★★★★★

Model JVR20N911K11PU5

Varistor; through-hole/DIP; 910V; ± 10 percent voltage tolerance; 550VAC, 745VDC maximum allowable, 1,500V maximum clamping voltage; 1W; 25mm lead wire length, 10mm spacing; -40 to 125 C operating temperature; RoHS



PCB assembly has 0402 components

Wells Electronic Technology Ltd
(Mainland China)

CONTACT SUPPLIER

★★★★☆

Model WSPCBA

PCB assembly; 0402 components; 1 to 30-layer PCB; FR-4, high-Tg FR-4, halogen-free, Rogers or aluminum base; HASL, lead-free HASL, immersion tin, gold or silver, gold plating, OSP or carbon ink surface finish; 3mil minimum line width/spacing; 1/3 to 7oz copper



Plastic part for consumer electronics

Win Industry Co. Ltd (Taiwan)

CONTACT SUPPLIER

★★★★★

Model Double-injection Molded Part

Plastic part for consumer electronics; mold, finished tolerance comply with international standards



Double-sided flexible PCB

Wuzhu Technology Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★★

Model wz131

Double-sided flexible PCB; immersion tin surface finish; 25µm polyimide, 18µm electrodeposited copper; materials from Iteq; 240x167mm; 1g; UL



SMT, PTH, BGA PCB assembly

Xiamen Orientronic Co. Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆

Model OEM&ODM PCBA

PCB assembly; SMT, PTH, BGA; components sourcing, automated optical inspection, in-circuit and functional testing, mold and die design and construction, rapid prototyping, plastic injection molding, metal sheet stamping, final assembly, customs clearance



Li-polymer battery lasts 500 cycles

YJ Power Group Ltd (Mainland China)

CONTACT SUPPLIER

★★★★☆

Model 301030 650mAh

Li-polymer battery; 650mAh; 3.7V; 1C or 65mA maximum charging current; 1.5C or 97.5mA maximum discharging current; ≥500 cycles; 3x10x30mm; 3g



Conductive belt for heart rate monitors

You Eal (HK) Ltd (Hong Kong)

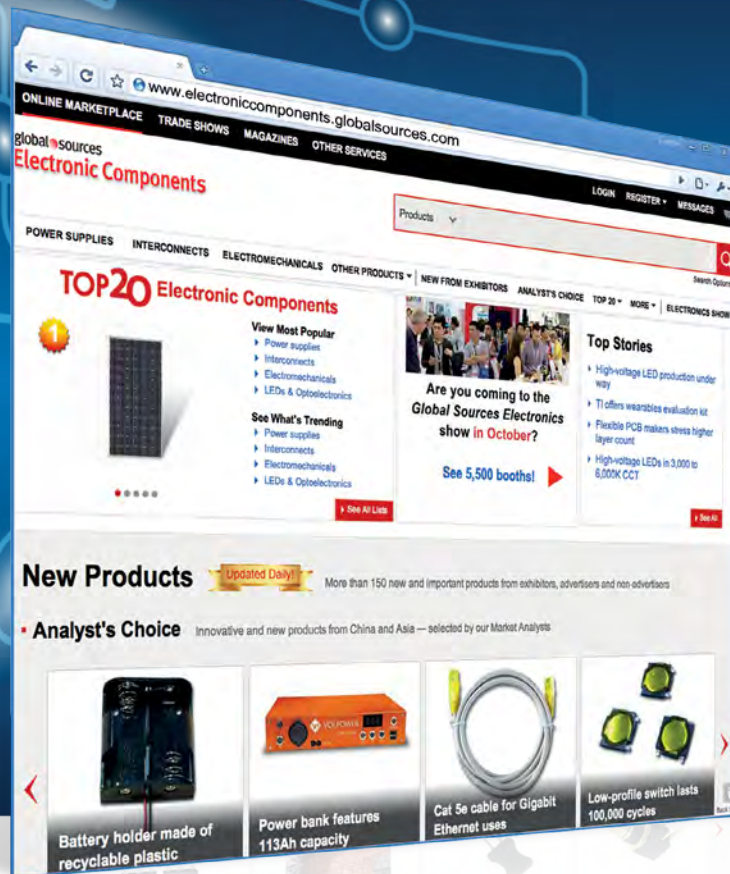
CONTACT SUPPLIER

★★★★☆

Model Heart Rate Monitor Unit

Conductive belt for wearable heart rate monitors; integrates sensors; 100 percent fabric, washable

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