

Rebound Electronics



Market Insight Q2/2021

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General Market Insight

- Biden Calls for \$50 Billion to Boost U.S. Chip Industry. President Biden's expansive infrastructure proposal includes \$50 billion for the American semiconductor industry, whose lobbying efforts have gained momentum amid a global chip shortage and fears that China might be overtaking the U.S. in a critical technology.
- Taiwan power outage has no impact on memory fabs. The Hsinta Power Plant in Taiwan's Kaohsiung City was shut down unexpectedly last May 13 due to malfunction. The effect of this incident has been felt across the entire island. Regarding the impact of this incident on Taiwan's semiconductor industry, supplying power to local wafer fabs is going to be the top priority for Taipower. Currently, Taipower has no plan to extend rolling blackout to areas where wafer fabs (including DRAM, NAND Flash, and foundry plants) are located.
- Nexperia is to invest \$700 million over the next 12-15 months at its European wafer fabs, assembly factories in Asia and global R&D sites. The investment will boost manufacturing capacity at all sites while supporting R&D into areas such as GaN-based wide bandgap semiconductors and PMICs.
- Regulatory Approval of SK Hynix Acquisition of Intel's NAND Business Progresses. The SK Hynix acquisition of Intel's NAND storage and memory business receives approval from US. The EU has set its regulatory review deadline last May 20.
- Taiwan suppliers are rushing to expand production amidst an unprecedented global chip shortage risk being stung once supply catches up with demand, according to the chairman of one of Taiwan's leading chip material makers.
- TSMC will give priority to the supply of automotive chips and Apple's orders in the third quarter of 2021. The company intended to choose orders based on profitability and other reasons.
- Memory module prices are currently at a 5-10% premium above official prices because of increased demand and tight supply.
- In 2020, Copper averaged \$3.60/Lb. In the first 4 months of 2021, copper is averaging \$4.77/Lb. That is a 32.5% increase in metal cost. The world risks "running out of copper" amid widening supply and demand deficits, according to Bank of America, and prices could hit \$20,000 per metric ton by 2025. After deficits in 2021 and 2022, Copper market is expected to rebalance in 2023 and 2024 before fresh shortfalls and a further draw down on inventories kick in from 2025.
- Half a million cars delayed by chip issue. Subaru Corporation will cut production and Suzuki Motor Corporation is planning a partial shutdown of its factories while other carmakers have stripped out features such as navigation systems and blind-spot-monitoring mirrors due to the chip shortage.



- A Massive fire broke out after an explosion in a poly-silicon (highly toxic) chemical plant in Shihezi City, Xinjiang, China.
- Japanese companies are preparing for a year of production turmoil and rising prices. With government support, capital investment must remain high for years. Until the support of the masses is provided, Japanese chip makers will continue to outpace their global rivals in both technology and reputation.
- The events that occurred in Q1 2021, exemplifies the downward trajectory global markets are expected to face as shortages continue to intensify from disasters and a lack of raw materials. With manufacturers continuing to struggle in fulfilling orders across numerous industries, companies are being forced to decrease their production lines, or stop them altogether.



Amphenol

- Amphenol RF expands SMA connector series for automotive testing. Amphenol RF has added to its SMA product series with the launch of 50 ohm connectors optimized for use with low-loss TFC-302LL cable, intended for applications such as automotive testing, wireless systems and IoT solutions. The lightweight, compact and vibration-proof interface is available in bulkhead jack, straight jack, straight plug and right angle plug configurations. The SMA interface supports frequencies up to 18GHz, ensuring optimal performance through 6GHz (the cut-off frequency of the cable) and uses the popular threaded coupling mechanism.



Amtek

- Due to rising cost of raw materials, Amtek notifies its customers that the cost of their products might be adjusted case by case For the parts which have been increased in these couple of months, the cost might be adjusted and renewed once again according to the actual material cost trend Lead times might also be delayed by 4-6 weeks on the basis of their standard time.



Analog Devices

- Remaining stock pricing will be doubled effective May 16, 2021. Price will increase 15%~25% on its vintage products with up to 50 weeks lead time.



AVX

- Price is increasing on its TAJ and TLJ series Lead time is on 52 weeks and parts are under allocation.
- Stable pricing on its standard MLCCs with lead time of 16-18 weeks.



Bosch

- Bosch allocation continues for at least one year



Bourns

- Bourns has been forced to raise its prices as a result of massive cost increases in the last 12-18 months. The shortage of resins and metals with the higher shipping cost are all contributing to higher costs and lead times.



Cypress

- Price increase on Ex Ramtron series with 15-20 weeks lead time



Diodes Inc.

- Price increase on automotive grade TVS diodes with lead time of 40+ weeks.



Everspin

- MR2A08ACYS35 & MR25H256ACDF6 series are now in shortage. Everspin have also increased pricing across all product ranges



Hirose

- The Hirose production facility in the USA has been closed for more than one month which has caused delays on its production. Some of the items affected have seen increases to 4-5 months lead time. Many products are experiencing delivery issues due to material supply.



Infineon

- BSS/BTN series are in shortage. Price is increasing and lead time is 52+ weeks.
- IR series are in shortage and spot buy pricing is becoming stable with 26+ weeks lead time.



ISSI

- ISSI lead times have stretched to 20 weeks+. ISSI management believed to be limiting supply in Asia and reviewing all the design in records by cutting most of the DDR3 backlog.



JST

- JST lead times said to be extending to at least 5-7 months



Kemet

- Price increase on Tantalum capacitors T49, T520 and T521 series. Booking is subjected to manufacturer confirmation and allocation



Kioxia

- Memory specialist Kioxia is planning to invest JPY 20 billion (EUR 151 million) to expand its Technology Development Building at its Yokohama Technology Campus and to establish its new Shin-Koyasu Advanced Research Center. The new facilities are expected to be operational by 2023 and will strengthen Kioxia's research and technology development by bringing together its R&D sites on the Kanagawa Prefecture, Japan to improve efficiency.



Lattice

- Lattice have increased pricing by 20% on some of its products effective since June 1, 2021



Macronix

- Price increase on all flash (NAND & NOR) by 30%~ 50% and are subjected to allocation. Lead time is 24-28+ weeks.



Microchip

- Price hike just started last June 01, 2021. The products that have been initially confirmed related to the increase are as follows: MPD (EEPROM/FLASH), MCU8 (PIC10/12/16/18 series), UNG(LAN/USB/KSZ/ENC), and CPLS/LCLD/RFDS.



Micron

- Micron is expecting DRAM market to face further supply constraints throughout the year. As DRAM shortages continue to worsen, pricing will keep rising rapidly.



molex

Molex

- Price increase notice effective since April 15th, 2021. Following are adjustments made on future orders:
 - Orders placed after April 15, 2021 will reflect the new prices
 - Orders that have been received prior to April 15th will be entered at the current prices for shipment through June 30th, 2021
 - All shipments after June 30th, 2021 will be invoiced at the new price regardless of their order entry date unless Molex pushes the MPD out.

muRata

INNOVATOR IN ELECTRONICS

Murata

- Price increase on its Standard MLCCs with 20-24 weeks lead time.

NXP

NXP

- **LPC series-** Price increase with up to 52 weeks lead time and seeing push outs. Delivery schedule is long and unstable, uncommon part lead time is at 99 weeks. Spot buy price change every few hours.
- **TJA /PCA / SJA Series-** Price increase and lead time is 39-46 weeks
- **All Ex- Freescale parts- MCUs, Sensors and the S9S Series-** Price increase with 39-56+ weeks in lead time due to wafer shortages.

Panasonic

Panasonic

- Price increase on all Aluminum Electrolytic Capacitors effective since April 1st, 2021

SAMSUNG

Samsung

- Production of certain Samsung SSDs could be reduced by as much as 30% in May due to the Texas power outage that occurred in mid-February.

SIEMENS

Siemens

- Siemens has signed an agreement to acquire Supplyframe, a leading design-to-source platform for the global electronics value chain, for USD 0.7 billion. Closing of the transaction is subject to customary conditions and is expected in the fourth quarter of fiscal year 2021.



Silicon

- Due to unprecedented industry demand and supply constraints, Silicon Labs will not be able to fulfil all requirements throughout 31st December 2021, particularly for products in their portfolio where demand exceeds supply. By the end of the month, Silicon labs will notify all customers to whom they will be able to supply their product to. Along with that data, they will advise their distribution partners about how to convey the situation to their customers.



STMicroelectronics

- Price increase across all product lines beginning 1st of June 2021
- Standard lead times for ST Micro's accelerometer series LIS and LPS have increased to 20-40 weeks due to the wafer shortage and automotive demand increase.



TDK

- Oxygen shortages due to intense demand from the medical sector. Due to this situation, Many manufacturers are being asked to stop using oxygen in film capacitors which requires front end layering activity. This issue must be considered when quoting TDK items or any film capacitor related items to customers.



Takbro

- Price to increase effective July 01, 2021 on its cable ties (10%), crimps and lugs (12%), plastic connectors and boots (9%), and chain terminal (14.3%). Another price increase starting August 01, 2021 on its cable ties (12%)



TE Connectivity

- TE Connectivity and its affiliates (collectively "TE") have received Force Majeure notices from several resin suppliers (including Almac Ascend, BASF, DOMO, DuPont, Lanxess LyondellBasell, Sabic and Solvay) with the potential for more to be added to the list.



Vishay

- Oxygen shortages due to intense demand from the medical sector. Extended lead times must be considered when quoting Vishay items or any film capacitor related items to customers.



Yazaki

- Some delays are expected due to growing constraint in the supply of plastic resin.



ANALOG		PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
Standard	Amplifiers & Comparators	↑	↑	18+
	Analog Interface	↑	↑	18+
	Power Management	↑	↑	18+
	Converters	↑	↑	18+

MPU/MCU		PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
MPU		↑	↑	28+
MCU	8 Bit & Lower	↑	↑	28+
	16 Bit	↑	↑	28+
	32 Bit & Higher	↑	↑	28+
DSP		↑	↑	18+

PROGRAMMABLE LOGIC	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
	↑	↑	28+

STANDARD LOGIC	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
Timing Products	↑	↑	18+
Interface	↑	↑	18+
Connectivity	↑	↑	18+
Standard Logic	↑	↑	18+

POWER	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
FET	↑	↑	28+
IGBT	↑	↑	18+
Rectifier	↑	↑	18+
Other Power	↑	↑	18+



MEMORY	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
Flash	↑	↑	18+
eMMC	↑	↑	18+
EEPROM	↑	↑	38+
DRAM	↑	↑	28+
SRAM	↑	→	12-18
Solid State Drives	↑	↑	18+

SENSORS	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
	↑	↑	28+

OPTO	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
LEDs (Low Power)	→	↑	12-18
LEDs (Mid Power)	→	↑	12-18
LEDs (High Power)	→	↑	12-18
Couplers	↑	↑	18+
Fibre-Optic	↑	↑	18+
Infrared	↑	↑	18+
Other Opto	↑	↑	18+

DISCRETE	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
Small Signal	↑	↑	18+
RF	↑	↑	18+



↔	Stable
↗	Increasing
↘	Decreasing
SMA	Selective Market Adjustment
EOL	End-of-Life

click on a category below:

Analog	High- End
Battery	Interconnect
Connectivity	Opto / Lighting
Discrete	Memory
Electromechanical	Passives

Analog

MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
AMS	Analog	10-32	↔	↗	
BOSCH	Sensors	24-28	↗	↔	
	Multi- Source Analog/Power	14-26	↗	↗	
DIODES	Switching Regulators	14-16	↗	↔	
	Timings	22-28	↗	↗	
FTDI Chip	Interface	20-32	↗	↗	
	Sensors	20-40	↗	↗	
Infineon	Switching Regulators	28+	↗	↗	
	Analog and Power for Automotive (CAN/LIN/Smart FET)	42-44	↔	↔	
	Signal Chain Amplifiers	8-10	↔	↔	
Maxim Integrated	Interface	8-10	↔	↔	
	Switching Regulators	8-30	↗	↔	
Maxlinear	Interface	18-42	↗	↗	
Melexis	Sensors	18-48	↗	↗	
	Signal Chain (Amplifiers and Data Converters)	22-28	↗	↗	
Microchip	Timing	22	↗	↗	
	Switching Regulators	14-26	↗	↗	
MPS	Switching Regulators	42-50	↗	↗	



MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
NXP	Sensors	18-54	↗	↗	
	Interface	28-48	↗	↗	
	Analog and Power for Automotive (CAN/LIN/Smart FET)	48-54	↗	↗	
Omron	Sensors	24	↗	↗	
ON Semiconductor	Sensors	20-54	↗	↗	
	Signal Chain (Amplifiers and Data Converters)	22-32	↗	↗	
	Timing	22-26	↗	↗	
	Multi- Source Analog/Power	16-38	↗	↗	
	Switching Regulators	16-38	↗	↗	
Panasonic	Sensors	16-20	↗	↔	
3PEAK	Signal Chain (Amplifiers and Data Converters)	12-14	↗	↗	
Renesas	Signal Chain (Amplifiers and Data Converters)	18-20	↔	↗	
	Timing	22	↔	↗	
	Interface	20-22	↗	↔	
	Switching Regulators	20-26	↗	↗	
ROHM	Sensors	14-26	↔	↔	
	Switching Regulators	10-22	↔	↔	
ST Microelectronics	Sensors	28-36	↗	↗	
	Signal Chain (Amplifiers and Data Converters)	18-26	↗	↗	
	Multi- Source Analog/Power	14-26	↗	↗	
	Switching Regulators	14-28	↗	↗	
	Analog and Power for Automotive (CAN/LIN/Smart FET)	32-42	↗	↗	
TE Sensor Solutions	Sensors	18-32	↔	↔	
Vishay	Sensors	18-26	↔	↔	



Batteries

MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
Energizer	Alkaline	10-12	↔	↔	
	Lithium Metal	12-14	↔	↔	
	Silver Oxide	10-12	↔	↔	
GP Batteries	Alkaline	10-12	↔	↔	
	Lithium Metal	12-14	↔	↔	
	Lithium Ion	12-14	↔	↔	
	Nickle Metal Hydride	12-14	↔	↔	
	Lead Acid	10-12	↔	↔	
	Carbon Zinc	10-12	↔	↔	
Panasonic	Alkaline	12-14	↔	↔	
	Lithium Metal	22-24	↔	↗	
	Nickle Metal Hydride	10-12	↔	↔	
	Lead Acid	14-16	↔	↗	
	Carbon Zinc	10-12	↔	↔	
Renata Batteries	Lithium Metal	14-16	↔	↔	
	Nickle Metal Hydride	12-14	↔	↔	
	Silver Oxide	10-12	↔	↔	
	Carbon Zinc	10-12	↔	↔	
VARTA	Alkaline	12-14	↔	↔	
	Lithium Metal	20-26	↔	↗	
	Lithium Ion	34-40	↔	↔	
	Nickle Metal Hydride	12-14	↔	↔	



Connectivity

MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
AMS	RFID	30-32	↗	↔	
AVX	Antennas	10-12	↔	↔	
	802.15.4/Zigbee Modules	16-18	↔	↔	
CEL	Small Signal, Schottky Diodes, PIN Diodes, Bipolar Transistors, FETs/PHEMTs, Amplifiers, Mixers & Modulators, VCOs, SS Bipolar Transistors, Wideband Transistors	20-22	↔	↔	
Cypress	Bluetooth Modules	28-32	↗	↗	Cypress is now Infineon
	Wi-Fi Modules	22-24	↗	↔	
Laird Connectivity	Antennas	18-22	↗	↗	
	Cellular Modules	8-12	↔	↔	
Linx Technologies	Antennas	8-10	↔	↔	
	Transceivers/Receivers	8-10	↔	↔	
	Transceivers/Receivers	18	↔	↔	
Melexis	RFID	16-18	↔	↔	
	Wi-Fi Modules	26-28	↗	↗	
Microchip	Bluetooth Modules	26-28	↗	↗	
	Transceivers/Receivers	20-22	↔	↗	
	Wi-Fi Modules	28-32	↗	↔	
Murata	Bluetooth Modules	28-32	↗	↔	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
NXP	Multi-Protocol/Chip Solutions	32-34	↗	↗	
	Transceivers/Receivers	26	↔	↗	
	RFID	28	↗	↗	
	High Power IC's	28	↗	↗	
ON Semiconductor	Bluetooth Modules	18-32	↗	↗	
Panasonic	Bluetooth Modules	26-28	↗	↔	
	RFID	16-18	↔	↔	
Pulse Electronics	Antennas	10-12	↔	↔	
Sierra Wireless	Multi-Protocol/Chip Solutions	26-28	↗	↔	
	Cellular Modules	22+	↗	↔	Certain devices are affected by AKM. LT's undertermined
Silex Technology	Wi-Fi Modules	26-30	↗	↗	
ST Microelectronics	Bluetooth Modules	22-28	↗	↗	
	RFID	18-20	↗	↗	
Taoglas	Antennas	12-14	↔	↔	
U-Blox	Bluetooth Modules	28-30	↗	↗	
	Cellular Modules	28-32	↗	↗	Parts are on allocation
	GPS	28-32	↗	↗	Increased in pricing on some GPS modules



Discrete

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Alpha Power Solutions	Diode Array	16-20	↗	↗	
	Low Voltage MOSFETS	16-20	↗	↗	
	High Voltage MOSFETS	16-20	↗	↗	
AVX	Varistors	16-20	↔	↔	
CEL	Optocoupler Components	22	↔	↔	
Diodes Inc.	Low Voltage MOSFETS	24-32	↗	↗	
	TVS Diodes	20-22	↗	↔	
	Bridge Rectifiers	18-20	↔	↗	
	Schottky Diodes	14-34	↗	↗	
	Rectifiers	12-20	↔	↗	
	Switching Diodes	14-34	↗	↗	
	Small Signal MOSFETS	14-34	↗	↗	
	Zener Diodes	14-34	↗	↗	
	Bipolar Transistors	14-34	↗	↗	
	Digital Transistors	14-34	↗	↗	
	General Purpose Transistors	14-34	↗	↗	
	Logic	20-32	↗	↗	
EATON	ESD	14-16	↔	↔	
	Fuses	12-16	↔	SMA	
	Clips and Holders	14-18	↔	↔	
Everlight	Optocoupler Components	26	↗	↗	
Fairchild (ON Semiconductor)	Low Voltage MOSFETS	28-54	↗	↗	
	High Voltage MOSFETS	28-38	↗	↗	
	IGBTs	28-38	↗	↗	
	Bridge Rectifiers	16-38	↗	↗	
	Schottky Diodes	18-54	↗	↗	
	Rectifiers	16-54	↗	↗	
	Switching Diodes	18-54	↗	↗	
	Small Signal MOSFETS	18-54	↗	↗	
	Zener Diodes	18-54	↗	↗	
	Bipolar Transistors	14-54	↗	↗	
	Optocoupler Components	32-52	↗	↗	
Goford Semiconductor	Low Voltage MOSFETS	16	↗	↔	
	Medium Voltage MOSFETS	16	↗	↔	
	High Voltage MOSFETS	20	↗	↔	
Hollyfuse	Fuses	12-14	↔	↗	15% Price Increase



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Infineon	Low Voltage MOSFETS	28-54	↗	↗	
	High Voltage MOSFETS	28-42	↗	↗	
	IGBTs	28-38	↗	↗	
	Wide Bandgap Mosfets	26-32	↗	↗	
	Digital Transistors	14-42	↗	↗	
	General Purpose Transistors	14-54	↗	↗	
	Mil-Aero Transistors	32-52	↗	↗	
Isocom Components	Optocoupler Components	4-6	↔	↔	
IXYS	High Voltage MOSFETS	28-38	↗	↗	
	IGBTs	28-32	↗	↗	
	Thyristors/Triacs	3242	↗	↗	
Keystone	Clips and Holders	10-12	↔	↔	
Lite-On	Optocoupler Components	26-32	↗	↔	
Littelfuse	ESD	14-22	↗	↗	
	Diode Arrays	16-26	↗	↗	
	Varistors	22-24	↗	↗	
	Wide Bandgap Mosfets	24-28	↗	↗	
	Fuses	12-14	↔	↗	
	PTC Fuses	12-14	↗	↔	
	Clips and Holders	12-22	↔	↗	
	Thyristors/Triacs	22-26	↗	↗	
	TVS Diodes	14-20	↔	↗	
	Sensors	18-32	↗	↗	
Micro Commercial Components	Schottky Diodes	14-34	↗	↔	
	Switching Diodes	14-34	↗	↔	
	Zener Diodes	14-34	↗	↔	
	General Purpose Transistors	14-34	↗	↔	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Microsemi	High Voltage MOSFETS	32-42	↗	↗	
	IGBTs	28-42	↗	↗	
	Mil-Aero Diodes	34-58	↗	↗	
	Mil-Aero Transistors	34-62	↗	↗	
Nexperia	Low Voltage MOSFETS	22-54	↗	↗	
	ESD	8-16	↗	SMA	
	Schottky Diodes	18-54	↗	↗	
	Switching Diodes	18-54	↗	↗	
	Small Signal MOSFETS	18-54	↗	↗	
	Zener Diodes	18-54	↗	↗	
	Bipolar Transistors	18-54	↗	↗	
	Digital Transistors	18-54	↗	↗	
	General Purpose Transistors	18-54	↗	↗	
	Logic	42-52	↗	↗	
ON Semiconductor	Low Voltage MOSFETS	28-54	↗	↗	
	ESD	14-42	↗	↗	
	Wide Bandgap Mosfets	26-36	↗	↗	
	Schottky Diodes	18-54	↗	↗	
	Rectifiers	16-54	↗	↗	
	Switching Diodes	18-54	↗	↗	
	Small Signal MOSFETS	18-54	↗	↗	
	Zener Diodes	18-54	↗	↗	
	Bipolar Transistors	18-54	↗	↗	
	Digital Transistors	18-54	↗	↗	
	General Purpose Transistors	18-54	↗	↗	
Logic	32-52	↗	↗		
ProTek Devices	Diode Arrays	14-18	↔	↔	
Renesas	Optocoupler Components	26-32	↗	↗	
ROHM	High Voltage MOSFETS	22-28	↗	↔	
	Wide Bandgap Mosfets	24-28	↗	↗	
	Schottky Diodes	14-54	↗	↔	
	Switching Diodes	14-54	↗	↔	
	Digital Transistors	16-54	↗	↔	
	General Purpose Transistors	14-54	↗	↔	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Schurter	Fuses	14-22	↔	↔	
	Clips and Holders	14-18	↗	↔	
Semtech	Diode Arrays	10-14	↔	↔	
	Mil-Aero Diodes	42-52	↗	↔	
ST Microelectronics	Low Voltage MOSFETS	32-54	↗	↗	
	High Voltage MOSFETS	24-32	↗	↔	
	IGBTs	26-32	↗	↗	
	ESD	16-32	↗	↗	
	Wide Bandgap Mosfets	32-42	↗	↗	
	Thyristors/Triacs	42-52	↗	↗	
	TVS Diodes	16-22	↗	↗	
	Rectifiers	30-38	↔	↗	
	Bipolar Transistors	22-42	↗	↗	
	Taiwan Semiconductor	Low Voltage MOSFETS	28-54	↗	↗
ESD		14-42	↗	↗	
Wide Bandgap Mosfets		26-36	↗	↗	
Schottky Diodes		18-54	↗	↗	
Rectifiers		16-54	↗	↗	
Switching Diodes		18-54	↗	↗	
Small Signal MOSFETS		18-54	↗	↗	
Zener Diodes		18-54	↗	↗	
Bipolar Transistors		18-54	↗	↗	
Digital Transistors		18-54	↗	↗	
TDK EPCOS	General Purpose Transistors	18-54	↗	↗	
	Logic	32-52	↗	↗	
TE Connectivity	Varistors	18-26	↗	↔	
Vishay	PTC Fuses	14-18	↗	↗	
	Low Voltage MOSFETS	24-28	↗	↗	
Vishay	High Voltage MOSFETS	22-28	↗	↗	
	TVS Diodes	30-32	↗	↗	
	Bridge Rectifiers	20-68	↗	↗	
	Rectifiers	20-52	↗	↗	
	Zener Diodes	22-38	↗	↗	
	Optocoupler Components	26-32	↗	↗	



Electromechanical

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
AVX	Timing	14-16	↔	↔	
Aavid	Fans	14-16	↔	↔	
	Heatsinks	14-16	↔	↗	
Abracon	Timing	14-54+	↗	SMA	
ADDA	Fans	16-18	↔	↔	
Alps Electric	Switches	14-26	↗	↔	
American Zettler	Relays	14-38	↗	↔	
Bivar	Hardware	8-10	↔	↔	
C&K	Switches	14-22	↗	↔	
Citizen Finedevice	Timing	14-54	↗	↔	
COSEL	Power Supplies (AC/DC)	14-22	↔	↔	
	Power Supplies (DC/DC)	14-18	↔	↔	
CTS	Switches	10-12	↔	↔	
	Timing	14-54	↔	↔	
CUI Inc	Power Supplies (AC/DC)	16-18	↗	↔	
	Power Supplies (DC/DC)	14-16	↔	↔	
	Heatsinks	12-14	↔	↔	
Delta	Fans	20-22	↗	↔	
Diodes Inc	Timing	10-12	↔	↔	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
E-Switch	Switches	12-14	↔	↔	
EPSON Electronics America	Timing	12-42	↗	SMA	
Fox	Timing	12-42+	↗	SMA	
Grayhill	Switches	18-20	↗	↔	
Heyco	Hardware	8-10	↔	↔	
Hongfa	Relays	16-42	↗	↔	
Infineon	Relays	20-24	↔	↔	
IXYS	Relays	10-22	↗	↔	
Keystone	Hardware	6-8	↔	↔	
Kyocera International	Timing	30	↗	SMA	
Meanwell	Power Supplies (AC/DC)	20-24	↗	↔	
Mornsun	Power Supplies (AC/DC)	10-16	↗	↗	
	Power Supplies (DC/DC)	10-16	↗	↗	
Murata	Timing	10-12	↔	↔	
Murata Power Solutions	Power Supplies (AC/DC)	14-22	↗	↔	
	Power Supplies (DC/DC)	14-16	↗	↔	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Myrra	Power Supplies (AC/DC)	18-26	↗	↗	Price increase by 6~15%
NKK Switches	Switches	12-20	↔	↗	
NMB	Fans	16-18	↗	↔	
Ohmite	Fans	12-14	↗	↗	
Omron	Sensors	26	↗	↗	
	Switches	26	↗	↔	
Panasonic	Relays	16-38	↔	↔	
	Switches	12-14	↔	↔	
Qualtek	Fans	16-18	↔	↔	
Ralton	Timing	12-42	↔	↔	
RECOM	Power Supplies (AC/DC)	20-22	↗	↗	
	Power Supplies (DC/DC)	14-20	↔	↔	
Schneider Electric	Relays	16-18	↔	↔	
Song Chuan	Relays	26-28	↔	↔	
SUNON	Fans	18-24	↗	↗	
TE Connectivity Sensors	Relays	14-16	↔	↔	
	Switches	12-14	↔	↔	
Vicor	Power Supplies (AC/DC)	22-24	↔	↔	
	Power Supplies (DC/DC)	22-24	↔	↗	



High-End

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Compulab	SOM	22	↗	↗	
Cypress	8 bit MCU	48	↗	↔	
	32 bit MCU	48	↗	↔	
	USB	22-36	↗	↗	
	Automotive	22-26	↔	↔	
DKE	E-paper Display	52	↗	↗	MOQs are currently high
Formerica	Fibre Optic Transceivers	10-14	↗	↔	
Infineon	Automotive	34-48	↗	↔	
Lattice Semiconductor	FPGA	22-38	↗	↗	
Microchip	8 bit MCU	32-58	↗	↗	
	32 bit MCU	42-58	↗	↗	
	PHY/ Ethernet	32-54	↗	↗	
	USB	18-54	↗	↗	
Microsemi	32 bit MPU	32-54	↗	↗	
	FPGA	20-36	↗	↗	
	PHY/ Ethernet	32-54	↗	↗	
NXP	8 bit MCU	28-54	↗	↗	
	32 bit MCU	18-28	↗	↔	
	Automotive	Allocation	↗	↗	
	32 bit MPU	26-54	↗	↗	
Raystar	Network Processors	20-54	↗	↗	
	LCDs	14-16	↗	↗	
Renesas	8 bit MCU	22-26	↗	↗	
	32 bit MCU	32	↗	↔	
	Automotive	32	↔	↔	
	32 bit MPU	32	↔	↗	
Renesas Synergy	32 bit MCU	22-26	↗	SMA	
Sharp	LCDs	42-46	↗	↗	
ST Microelectronics	8 bit MCU	Allocation	↗	↗	
	Automotive	Allocation	↗	↗	
	32 bit MPU	22-28	↔	↗	
	STM32F0- 32 bit MCU	Allocation	↔	↗	
	STM32F1- 32 bit MCU	Allocation	↔	↗	
	STM32L- 32 bit MCU	38-54	↗	↗	
Zilog	8 bit MCU	22-28	↔	↗	



Interconnect

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Adam Tech	D-Sub Connectors	14-16	↔	↗	
	PCB Connectors	14-16	↔	↗	
Altech Corp.	Terminal Blocks & Crimps	8-10	↔	↔	
Amphenol ICC	D-Sub Connectors	10-12	↔	↗	
	Data & Telecom	10-12	↔	↗	
	PCB Connectors	10-12	↔	↗	
	FFC/FPC	10-12	↔	↗	
Amphenol Sine System	Circular Connectors	14	↔	↔	
AVX	Lighting Connectors	12-14	↔	↔	
Connfly	PCB Connectors	16-18	↗	↗	Small Price Increase
Degson	Terminal Blocks & Crimps	18	↗	↗	
EDAC	PCB Connectors	12-16	↔	↔	
Greenconn Technology	PCB Connectors	6	↔	↔	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
HALO Electronics	Data & Telecom	18-20	↔	↔	
HARTING	PCB Connectors	10-12	↔	↗	
	PCB Connectors	14-16	↗	↗	
Hirose Electric	RF Connectors	12-16	↗	↗	
	FFC/FPC	14-16	↗	↗	
JST	PCB Connectors	24	↗	↔	
	PCB Connectors	6-8	↔	↔	
Mil-Max	IC Sockets	6-8	↔	↔	
Omron	PCB Connectors	26	↗	↔	
Sullins	PCB Connectors	8-10	↔	↔	
	Automotive Connectors	18-22	↗	↔	
	Circular Connectors	30-32	↔	↗	
	Relays	38-40	↙	↔	
	D-Sub Connectors	10-12	↔	↔	
	Data & Telecom	10-12	↔	↔	
TE Connectivity	PCB Connectors	18-20	↔	↔	
	RF Connectors	14-16	↔	↔	
	IC Sockets	8-10	↔	↔	
	Terminal Blocks & Crimps	16-18	↔	↔	
	Lighting Connectors	10-12	↔	↔	
	Terminal Blocks & Crimps	8-10	↔	↔	
WAGO	Lighting Connectors	8-10	↔	↔	
WECO	Terminal Blocks & Crimps	14-18	↗	↗	



Opto/Lighting

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Bridgelux	Chip On Board (CoB)	8-10	↔	↔	
Dialight	Indication LEDs	12-18	↗	↔	
	6V (LED Optics)	12-18	↔	↔	
Everlight	Automotive LEDs (AEC-Q101 Certified)	10-12	↔	↔	
	Infrared Components/ LED	10-12	↔	↔	
	Indication LEDs	10-12	↗	↔	
	UV LEDs	10-12	↔	↔	
Excellence Optoelectronics Inc.	Automotive LEDs (AEC-Q101 Certified)	10-12	↔	↔	
General Luminaire	Standard Light Engines (Level 2 Boards)	16-18	↗	↔	
Inolux	Indication LEDs	8-10	↔	↔	
Kingbright	LED Displays	12-14	↙	↔	
	Indication LEDs	10-12	↙	↔	
Lite-On	Infrared Components/ LED	14-16	↗	↔	
	LED Displays	10-12	↔	↔	
	Indication LEDs	18-22	↗	↔	
Lumex	LED Displays	14	↗	↔	
	Indication LEDs	10-16	↔	↗	
Lumileds	Illumination High Power LEDs (White)	14-16	↗	SMA	
	Illumination High Power LEDs (Colors)	14-16	↗	↔	
	Illumination High Power LEDs (White & Colors)	10-12	↔	↔	
	Horitcultural Mid Power LEDs (White & Colors)	8-10	↔	↔	
	Automotive LEDs (AEC-Q101 Certified)	16-18	↗	↗	
Meanwell	Chip On Board (CoB)	14-16	↗	↔	
	Standard Light Engines (Level 2 Boards)	14-16	↗	↔	
	Infrared Components/ LED	10-12	↔	↔	
	UV LEDs	10-12	↔	↔	
Meanwell	LED Drivers	12-18	↔	↔	
Murata	Lighting Controls	28-32	↔	↔	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Nichia	Illumination High Power LEDs (White)	8-10	↔	↔	
	Illumination High Power LEDs (Colors)	8-10	↔	↔	
	Illumination High Power LEDs (White & Colors)	8-10	↔	↔	
	Horitcultural Mid Power LEDs (White & Colors)	12	↗	↔	
	Chip On Board (CoB)	8-10	↔	↔	
Raystar	OLEDs	24-36	↗	↗	
	TFT Displays	24-36	↗	↗	
ROHM	Infrared Components/ LED	8-10	↔	↔	
	Indication LEDs	12-14	↔	↔	
Samsung LED	Illumination High Power LEDs (White)	14-16	↗	↔	
	Illumination High Power LEDs (White & Colors)	8-22	↗	SMA	
	Horitcultural Mid Power LEDs (White & Colors)	20-24	↗	↗	
	Chip On Board (CoB)	12-14	↗	↔	
	Standard Light Engines (Level 2 Boards)	419-74	↗	↔	
Seoul Semiconductor	Illumination High Power LEDs (White)	10-12	↔	↔	
	Illumination High Power LEDs (White & Colors)	8-10	↔	↔	
	Horitcultural Mid Power LEDs (White & Colors)	8-10	↔	↔	
	Chip On Board (CoB)	8-10	↔	↔	
	Standard Light Engines (Level 2 Boards)	10-12	↔	↔	
Seoul Viosys	UV LEDs	10-12	↗	↔	
Stanley Electric	LED Displays	14	↔	↔	
	Indication LEDs	12-14	↔	↔	
SunLed	LED Displays	16	↔	↔	
Team Source	TFT Displays	24-36	↗	↗	
TT Electronics- Optek Technology	Infrared Components/ LED	14-18	↗	↔	
VCC	Indication LEDs	14	↔	↗	
Vishay	Infrared Components/ LED	10-22	↔	↗	
	Indication LEDs	10-32	↔	↔	
	UV LEDs	16-18	↗	↔	



Memory

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
ADATA	Memory Modules	12-14	↗	↗	
	eMMC	14-18	↔	↔	
	Memory Cards	12-14	↗	↗	
	Solid State Drives (SSD)	10-14	↗	↗	
Adesto Technologies	NOR Flash	14-22	↗	↔	
	DATA Flash	22-28	↗	↔	
Alliance Memory	PC (Commodity) DRAM	12-22	↗	↗	
	Mobile DRAM	10-12	↗	↗	
	SRAM	10-14	↗	↔	
	NOR Flash	10-12	↔	↔	
Cypress	SRAM	12-30	↗	↔	
	NOR Flash	16-32	↗	↗	
	FRAM & NVSRAM	18-30	↔	↔	
Everspin Technologies	MRAM	14-30	↗	↗	
Greenliant	NOR Flash	18-20	↗	↗	
	eMMC	24-26	↗	↔	
	Memory Cards	20-28	↗	↔	
	Solid State Drives (SSD)	12-14	↔	↔	
Kingston	PC (Commodity) DRAM	10-12	↗	↗	
	Mobile DRAM	54+	↗	↗	
	Memory Modules	8-12	↗	↗	
	eMMC	10-12	↗	↗	
	Memory Cards	8-22	↗	↗	
	Solid State Drives (SSD)	8-12	↗	↗	
Macronix	NOR Flash	22-30	↗	↗	
	SLC NAND Flash	22-30	↗	↗	
	eMMC	54-56	↗	↗	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Microchip	NOR Flash	12-20	↗	↗	
	EEPROM	14-22	↔	↗	
	EPROM	14-22	↗	↗	
Micron	PC (Commodity) DRAM	54-56	↗	↗	
	Memory Modules	54-56	↗	↗	
	eMMC	54-56	↗	↗	
	Solid State Drives (SSD)	54	↗	↗	
ON Semiconductor	EEPROM	10-22	↔	↗	
Renesas	SRAM	20-22	↔	↔	
Samsung	PC (Commodity) DRAM	54-56	↗	↗	
	Memory Modules	54-56	↗	↗	
	eMMC	54-56	↗	↗	
	Solid State Drives (SSD)	54	↗	↗	
SkyHigh Memory	SLC NAND Flash	14-20	↗	↗	
	eMMC	14-18	↗	↗	
STMicroelectronics	EEPROM	28-38	↗	↗	



Passives

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Apl Delevan	Inductors	18-26	↔	↔	
	Capacitors- Supercapacitors	16-18	↔	↔	
	Capacitors- Tantalum Molded	34-36	↗	↔	
	Capacitors- Tantalum Conformals	28-32	↗	↔	
AVX	Capacitors- Polymer Tantalum	28	↔	↔	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	22-26	↗	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	22-26	↗	↔	Excludes 1206+ sizes
	Leaded Capacitors- Ceramic	32	↔	↔	
	Specialty Capacitors	32-36	↔	↔	
	Filters- Common Mode Choke	14-16	↗	↗	
Coilmaster Electronics	High Frequency Transformer	8-12	↔	↗	
	Inductors	10-12	↗	↗	
	LAN Magnetics Transformer	8-12	↔	↗	
CTS	Resistor Networks	18-42	↗	↗	
Eaton	Capacitors- Supercapacitors	12-16	↗	↗	
	Inductors	16-20	↔	↔	
ELNA	Capacitors- Supercapacitors	24-34	↗	↗	
Faratronic	Capacitors- Film	16-18	↔	↔	
HALO Electronics	Inductors	18-22	↔	↔	
	Filters	14-20	↔	↔	
	Inductors	14-22	↗	↗	
Murata	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	26-30	↗	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	26-30	↗	↔	Excludes 1206+ sizes
	Leaded Capacitors- Ceramic	22-26	↔	↔	
	Specialty Capacitors	16-18	↔	↔	
	Electrolytic	26-34	↗	↔	
	Filters	14-20	↔	↗	
	Inductors	16-20	↔	↔	
NIC Components	Fixed Resistors	14-16	↗	↔	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	30	↗	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	22-24	↗	↗	Excludes 1206+ sizes
	Leaded Capacitors- Ceramic	28-30	↔	↔	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Nichicon	Electrolytic	24-30	↗	↔	
Nippon Chemi-Con	Electrolytic	35+	↗	↗	
Panasonic	Electrolytic	30-34	↗	↗	
	Capacitors- Polymer Tantalum	24-28	↗	↗	
	Inductors	22-24	↔	↔	
	Fixed Resistors	20-30	↗	↗	
Pancon Corp.- Paktron	Resistor Networks	16	↗	↗	
	Capactors- Film	12-14	↔	↗	Price increase is to be expected due to issues with small can
Royal Ohm	Resistor Networks	20+	↗	↗	
Samwha Electric	Electrolytic	26-40+	↗	↔	
Samsung Electro-Mechanics	Fixed Resistors	48	↔	↗	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	28	↗	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	28	↗	↔	Excludes 1206+ sizes
Stackploe Electronics	Fixed Resistors	20-22	↗	↗	
Sumida	Inductors	24-32	↗	↔	
Taiyo Yuden	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	22-28	↗	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	26-32	↗	↔	
TDK	Filters	28-42	↗	↗	
	Inductors	16-32	↔	↗	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	22-24	↗	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	24-30	↗	↗	Excludes 1206+ sizes
TDK EPCOS	Capacitors- Film	26-38	↗	↔	
	Filters	22-28	↔	↔	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
TT Electronics- BI Technologies	Trimmers & Pots	14-22	↗	↗	
TT Electronics- IRC	Fixed Resistors	32-54+	↗	↗	
United Chemi-Con	Electrolytic	22-24	↗	↔	
Viking	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	26-30	↗	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	26-30	↗	↔	Excluding 1206+ sizes
Vishay	Trimmers & Pots	12-20	↗	↗	
	Capacitors- Film	14-22	↗	↔	
	Capacitors- Supercapacitors	16-18	↔	↔	
	Capacitors- Tantalum Molded	48	↗	↗	
	Capacitors- Tantalum Conformals	16-18	↗	↗	
	Capacitors- Polymer Tantalum	22-32	↗	↔	
	Inductors	14-22	↗	↔	
	Fixed Resistors	32-54	↗	↗	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	20-22	↗	↔	
	Leaded Capacitors- Ceramic	14-18	↗	↔	
	Specialty Capacitors	14-16	↔	↔	
WIMA	Capacitors- Film	16-20	↗	↔	
Würth Elektronik	Inductors	18-34	↗	↗	
Yageo	Fixed Resistors	26-28	↗	↗	
	Resistor Networks	24-26	↗	↗	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	26-32	↗	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	26-32	↗	↔	Excluding 1206+ sizes

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