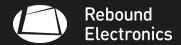


Market Insight Q3 2021

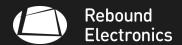


General Market Insight 13 Analog 15 **Batteries** Connectivity 16 18 Discrete Electromechanical 22 High-End 25 26 Interconnect Opto/Lighting 28 30 Memory 32 **Passives**



General Market Insight

- Microsoft recently announced the release of OS Windows 11 to occur later this year.
 The minimum requirement for Window 11 is Intel's 8th Gen Coffee Lake or AMD's Zen Pinnacle Ridge.
- Pricing has dropped by 5-7% for PC DIMMs amidst lower demand, customers are postponing their allocation
 owing to IC gating issues, which suppliers think is the reason for the high supply.
- Pricing for UMC foundry devices would increase by up to 30% in Q3. Prices are also likely to rise at TSMC, Powerchip and Vanguard International Semiconductor.
- European semiconductor distribution tops 25% growth. The COVID-19 dent in the European semiconductor
 distribution market seems to be over. While Q1 was still negative, Q2/CY21 more than compensated for it and
 ended up with 25.2% growth to over EUR 2.3 billion combined distribution revenue of all DMASS members
 (semi only).
- The United States, Japan, India and Australia are likely to sign an agreement to take steps to build secure
 semiconductor chip supply chains when they meet in Washington for the Indo-Pacific Quad summit, this is
 according to a report from Japan's Nikkei newspaper. The move is aimed at reducing the dependence for
 semiconductor chips on an increasingly assertive China. The U.S. Senate has already approved by an
 overwhelming majority the legislation to provide a staggering \$190 billion package to beef up the country's
 ability to compete with Chinese technology.
- 10 Japanese manufactures are set to propose a \$3B investment expansion in the Philippines. Japanese companies have chosen the Philippines as the manufacturing site of their most competitive products, leveraging mostly on the country's high-quality human resources. Collectively, these companies represent \$2.5 billion in investments, \$6.9 billion in exports, and over 83,000 in total employment. These Japanese firms include Brother Industries, Canon Inc., Seiko Epson Corp., Terumo Corp., JMS Co., Ltd., ROHM Co., Ltd., Nidec Corp., Minebea Mitsumi Inc., Murata Manufacturing Co., Ltd., and IBIDEN Co., Ltd.
- Worldwide IC market forecast to top \$500 billion in 2021. The IC market is expected to increase again next year and in 2023, when global IC revenues are expected to surpass USD 600 billion for the first time. Throughout the projection period, 5G connectivity, artificial intelligence, deep learning, virtual reality, and other developing applications in mobile, data centre and cloud-computer servers, automotive, and industrial markets, resulting in a robust IC market CAGR of 10.7% from 2020-2025.
- Rising demand strains on MLCC supply. The demand for consumer electronics, particularly 5G smartphones, laptops, and vehicles, is continuing to put a strain on MLCC supply. As a result of this lead times have grown across the board. These continued shortages are also resulting in price increases.
- Official pricing for memory continues to rise by 3-5%, and market pricing is following suit. This has resulted in demand becoming very flat and supply issues are believed to worsen in Q3, prolonging the memory shortages experienced over the past quarter.



- Nine UK companies have said that they would be willing to jointly acquire Welsh semiconductor
 manufacturer Newport Wafer Fab, should the UK government block a proposed acquisition by a Chinese
 owned company. The identities of the companies have not been disclosed. Newport Wafer Fab is the
 UK's largest chip factory but is significantly smaller than most modern fabs. The company has over a
 dozen UK government research contracts, including defense-related projects.
- Singapore looks to bolster chipmaking amid Taiwanese domination of industry. Money for semiconductor investments has increased in Singapore over the past year, but the country still trails far behind Taiwan and other Asian chipmaking players. According to Nikkei, Singapore has set a target for 2030 to increase its electronics manufacturing by 50% with an eye on semiconductor development. In order to reach its target, foreign direct investment is expected to play a large role, as per the report. Singapore hopes to further develop its semiconductor sector by improving chip design, wafer manufacturing, assembly and testing, research and development, and regional distribution, according to the report. The problem for Singapore is that the foundry market is dominated by Taiwan, South Korea, and China.
- Rising Covid cases in Malaysia could exacerbate chip shortages. Infineon Technologies AG, NXP Semiconductors NV and STMicroelectronics NV are all feeling the pressure of Malaysia's increase in Covid cases—spurred by the Delta variant—which has seen the seven-day average jump from 5,000 in June to beyond 20,000. While Malaysia doesn't hold the same importance in the semiconductor chain as Taiwan or South Korea, it is a significant location for chip testing and packaging. The processes are less automated than wafer fabrication, relying more on the human workforce. Electronics and electrical products account for 39% of the country's total exports, according to data from the Ministry of Trade and Industry.
- Car production in the UK fell to its lowest level since 1956 last month as the industry was hit by a combination of staff and component shortages.
- The amount of time it's taking for chip-starved companies to get orders filled has stretched to more than 20 weeks, indicating the shortages that have held back automakers and computer manufacturers are getting worse.
- IDC expects that the semiconductor industry will normalize and balance by the middle of 2022. The same report states that there is a "potential for overcapacity in 2023" for semiconductors. This overcapacity would be caused by semiconductor manufacturing efforts coming online by the end of 2022.
- More Shortages Seen for Silicon Wafers. Customers sign LTAs in the silicon wafer market, especially during peak times, to assure a long-term consistent supply of wafers.
- SUMCO, a Japanese semiconductor company, plans to raise \$1.1 billion from new shares to expand its silicon wafer production. SUMCO is also considering adding production in Taiwan, which has the world's biggest concentration of chip foundries.



- According to the semiconductor supply chain, most other foundries have increased their foundry pricing for 8-inch wafers, in addition to TSMC and Samsung Electronics. The price of foundry will rise by at least 20% in 2021, and the price of urgent orders may rise by as much as 40%.
- Semiconductor shortage to further impact passenger vehicles (PVs) sales. Currently, these shortages have pushed some OEMs to reduce manufacturing, stretching the waiting periods of popular, feature-rich, and high-end models even more.
- The compound semiconductor market is set to grow by USD 11.53 billion, progressing at a CAGR of 6.33% during 2021-2025. The report offers an up-to-date analysis regarding the current market scenario, the latest trends and drivers, and the overall market environment.



Allegro Microsystems

- Allegro Microsystems issued a notice to its customers informing them that the prices of its entire product line would be raised beginning in October. The notice mainly includes the following:
 - Allegro will increase prices by a flat percentage in all product portfolios.
 - The price increase will take effect on October 1, 2021 and is applicable to new orders and existing backlogs.
 - Non cancellable and non-reschedulable terms will apply to all orders (new orders and existing orders) until further notice.

Bosch

According to sources in the semiconductor supply chain, the local government ordered part of a Bosch supplier's chip production line
in Muar, Malaysia, to be stopped until August 21 affecting the delivery of Bosch's ESP/IPB, VCU, TCU, and other parts. It is expected
that the supply will be cut off after August.

Brady

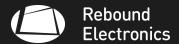
Average price increase of 3% ~ 7% - this may vary part to part. Price increase will take effect from October 1st, 2021.

Compal

Compal plans to acquire Cal Comp USA (Indiana) through a 100% - owned reinvestment company. The aim is to strengthen the
competitiveness of their car and electronics business. The deal will cost USD 8.13 million and will be finalized in the fourth quarter of
2021.

Infineon

• Due to a 20-minute power outage in Saxony's capital, Infineon Technologies had to cease manufacturing activities at its chip facility in Dresden, Germany.



Intel

Intel breaks ground on two new leading-edge chip factories in Arizona.
 New \$20 billion capacity expansion will bring Intel's total Arizona investment to more than \$50 billion.

Jauch

 Jauch is seeing a normal 2-3 days air shipment and get delivered in around 2 weeks and a normal sea freight delivery of 4-6 weeks turn into 12-14 weeks.

Klauke

 9.5% price increase on its lugs and connectors while 4.5% price increase on all other products, including tooling. Price increase will take effect from October 1st, 2021.

Littelfuse

 Littelfuse have announced with immediate affect a price increase on its Electronic Business Unit products, which also includes semiconductors, on September 1st, 2021.

Maxim Integrated

- Maxim Integrated officially joined in Analog Devices since August 26th, 2021. China's State Administration for Market Regulation has given antitrust clearance for Analog Devices' previously announced acquisition of Maxim.
- Due to a shortage of wafers, the delivery timeline for all Dallas parts has been extended to 60 weeks.
- Beginning August 22 2021, Maxim will apply a 6% pricing hike across the board. This price increase will take effect for new quotations and orders placed on or after August 22, 2021. Existing quoted backlog will see this price increase reflected on December 1, 2021.



Maxlinear

• From Q3'21 onwards, all scheduled shipments will be subject to a price increases on their relevant products.

Microchip

• Devices belonging to most Microchip business unit are affected by the price adjustment and the percentage adjustment varies by devices and clients. Microchip's September 1st Distributor Price Book will include the new pricing. Although Microchip will make no formal or public announcement, channel partners will notify the clients they serve.

Micron

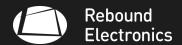
Micron vendors announced that SSD allocation for Q3 remains finite, and to anticipate prices to rise by 5~10%.
 Some customers are holding off on making purchases until prices improve.

Nexperia

• Nexperia has completed the acquisition of Newport Wafer Fab (NWF), which will help the firm achieve its expansion goals and increase worldwide manufacturing capacity. Nexperia now has 100% ownership of the Welsh semiconductor manufacturing facility as a result of the transaction.

Omron

Omron will have various price changes over the next months. All special pricing requests and other pricing agreements are currently
under review and any price changes required as a result of these reviews will be communicated during the next months.



Onsemi

- ON Semiconductor faces a continual challenge as a result of the current surge in demand. On Semiconductor will take the following efforts to further enhance supply chain stability:
 - Implement further targeted price increase, as necessary, in the most negatively impacted portfolios.

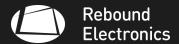
 Changes in pricing will be incorporated in the Q3 2021 pricing cycle, which has already begun as planned on July 10, 2021.
 - Firm order window will be changed to 120 calendar days before current MRSD for all products, effective since June 15, 2021. This means no order cancellation or order change inside 120 calendar days of current MRSD.
 - ◆ Negotiated Non-Cancellable Orders (NNCO) will be utilized, as necessary, where MRSD is outside the firm window.
- The lockdown would have a major effect on ON Semiconductor's regional operations in Malaysia, according to the company.
 The BD135, 137, and 139 series transistors have lead periods of up to 40 weeks, while the NCP3, NCP1, NCP5, NCP6 and NCP7 series controllers have lead times of up to 60 weeks.
- Price increases were announced in early October, which will affect both new orders and current backlogs. The price increase will
 directly affect the next cycle of distribution of price lists as well as direct and indirect customer pricing.

Schaffner

• Due to the following ongoing pandemic-related delays and closures, non-stop demand for ocean freight out of Asia, severe lack of capacity, on the top of being volatile and extremely elevated air and ocean rates, the Schaffner Supply Chain has established a "follow of the sun" approach. This is a 24h follow up over its global organization (Europe; Asia and US), to follow and secure the freight bookings with their leading preferred carriers' partners.

STMicroelectronics

- ST brings Tower Semi on board for fab being built in Italy. ST and Tower will join forces for an accelerated fab ramp-up, a key factor to reach a high utilisation level and therefore a competitive wafer cost. The fab is expected to be ready for equipment installation later this year and start production in the second half of 2022.
- Price increases will be implemented across all of its product lines, including existing backlog, beginning in the fourth quarter of 2021.



Taiyo Yuden

The industrial factory of Taiyo Yuden in Malaysia was shut down from June 1 to 14th after workers tested positive for COVID. While
activities have restarted, outbound shipments are currently two weeks behind schedule. The Malaysia plant mainly produces
commercial MLCCs and its lead time is currently 16 weeks. Both commercial and automotive grade parts are facing tight allocation.

Texas Instruments

• Price increase notice effective from September 15th, 2021

TSMC

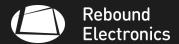
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Wago

• All products will have 8% price increase which will take effect from October 1, 2021.

Western Digital

Western Digital would acquire Kioxia for US\$ 20 billion and the deal is likely to be concluded next month. Once Western Digital
acquires Kioxia, the global NAND market will be led by Samsung Electronics, Western Digital and SK Hynix and the runner-up will be
able to narrow its market share gap with Samsung Electronics to 0.8 % or so.



Winbond

• Winbond's production capacity in the third quarter was in short supply and the fourth quarter is expected to be the same. Pei Ming Chen, president of Winbond, emphasized that the overall market demand is extremely strong. Even if new capacity is released in the DRAM market next year, it will be for DDR4 or DDR5. The demand for DDR3 will not decrease any time soon. In addition, Arthur Chiao revealed that after Winbond's new fab in Kaohsiung has been put into operation, the annual output would increase by 15~20% allowing the company to satisfy additional customer demands.

Xilinx

Xilinx will raise its prices on all existing and future orders, all quotations, and all shipments made on or after November 1st, 2021.
All Versal series will have a 10% price increase, while all other goods will get a 20% price increase.

Yageo

According to Yageo and Chilisin Electronics, in a stock-swap deal, Yageo will acquire all Chilisin's outstanding shares of common stock.
Both businesses' boards of directors have unanimously approved the transaction. The two parties are expected to hold an
extraordinary general meeting on September 7th, 2021, to approve the proposal. The transaction, which is expected to close on
December 30th, 2021, is however still subject to customary closing conditions and the receipt of required regulatory approvals. After
this transaction, Chilisin will become a wholly owned subsidiary of Yageo and will be delisted and void its public issues.

LEAD TIME (WEEKS)



ANALOG

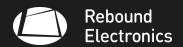
Amplifie	rs & Con	nparators			26+
	۔ آ	Analog Interface			26+
	Standard	Power Management			26+
	Sta	Converters			26+
_	MPI	J/MCU	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
MPU			↑	↑	26++
	Г	8 Bit & Lower			26++
	MCU	16 Bit			26+
	_ [32 Bit & Higher			26++
DSP					16+
Р	PROGRA	MMABLE LOGIC	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
					26++
	STA	NDARD LOGIC	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
Timing F	Products		^	^	16+

PRICING TREND

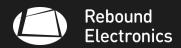
LEAD TIME TREND

	STANDARD LOGIC	PRICING IREND	LEAD HIVIE TREND	LEAD HIVIE (WEEKS)
Timing Prod	ucts			16+
Interface				16+
Connectivity	•			16+
Standard Lo	gic			26+

POWER	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
FET			26++
IGBT			26+
Rectifier			26++
Other Power			26++



MEMORY	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
Flash	↑	Φ.	26+
eMMC			16+
EEPROM		→	26++
DRAM			26+
SRAM			9-16
Solid State Drives			16+
SENSORS	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
	→	→	26++
ОРТО	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
LEDs (Low Power)	→		9-16
LEDs (Mid Power)	÷		9-16
LEDs (High Power)	→		9-16
Couplers			16+
Fibre-Optic			16+
Infrared			16+
Other Opto			
			16+
	↑	↑	16+
DISCRETE	PRICING TREND	↑ LEAD TIME TREND	16+ LEAD TIME (WEEKS)
	PRICING TREND		

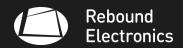


\leftrightarrow	Stable
7	Increasing
Ľ	Decreasing
SMA	Selective Market Adjustment
EOL	End-of-Life

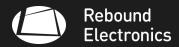
Connectivity Discrete Electromechanical Analog High- End Interconnect Opto / Lighting Passives

Analog

MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
AMS	Analog	10-40	\leftrightarrow	7	
воѕсн	Sensors	32-54	7	\leftrightarrow	
DIODES	Multi- Source Analog/Power	16-38	7	7	
DIODES	Switching Regulators	16-38	7	7	
FTDI Chip	Interface	20-42	7	7	
	Sensors	20-54	7	7	
Infineon	Switching Regulators	22-54+	7	7	
	Analog and Power for Automotive (CAN/LIN/Smart FET)	48-54	7	7	
	Signal Chain Amplifiers	12-22	7	\leftrightarrow	
Maxim Integrated	Interface	12-22	7	7	Maxim updates lead time often to keep up with market changes
	Switching Regulators	8-30	7	7	
Maxlinear	Interface	42-54	7	7	
Melexis	Sensors	18-54	7	7	
	Signal Chain (Amplifiers and Data Converters)	32-42	7	7	
Microchip	Timing	22	7	7	
	Switching Regulators	18-54	7	7	
MPS	Switching Regulators	52-60	7	7	

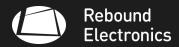


MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
	Sensors	18-54	7	7	
NXP	Interface	38-54	7	7	
	Analog and Power for Automotive (CAN/LIN/Smart FET)	48-54	7	7	
Omron	Sensors	36	7	7	Longer lead time
	Sensors	20-54	7	7	
	Signal Chain (Amplifiers and Data Converters)	38-44	7	7	
ON Semiconductor	Timing	22-26	7	7	
	Multi- Source Analog/Power	16-38	7	7	
	Switching Regulators	16-38	7	7	
Panasonic	Sensors	18-28	7	\leftrightarrow	
ЗРЕАК	Signal Chain (Amplifiers and Data Converters)	16-20	\leftrightarrow	7	
	Signal Chain (Amplifiers and Data Converters)	42-52	71	7	
Renesas	Timing	52	\leftrightarrow	71	
	Interface	42-52	7	↔ -	
	Switching Regulators	42-52	7	7	
ROHM	Sensors	18-42	7	\leftrightarrow	
	Switching Regulators	32	7	\leftrightarrow	
	Sensors	28-36	7	7	
	Signal Chain (Amplifiers and Data Converters)	38-46	7	7	
ST Microelectronics	Multi- Source Analog/Power	14-26	7	7	
	Switching Regulators	14-28	7	7	
	Analog and Power for Automotive (CAN/LIN/Smart FET)	42-54	71	7	
TE Sensor Solutions	Sensors	18-32	\leftrightarrow	\leftrightarrow	
Vishay	Sensors	18-34	\leftrightarrow	\leftrightarrow	



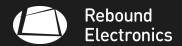
Batteries

MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
	Alkaline	12-14	\leftrightarrow	\leftrightarrow	
Energizer	Lithium Metal	14-16	\leftrightarrow	\leftrightarrow	
	Silver Oxide	10-12	\leftrightarrow	\leftrightarrow	
	Alkaline	16-18	\leftrightarrow	\leftrightarrow	
	Lithium Metal	18-20	\leftrightarrow	\leftrightarrow	
GP Batteries	Lithium Ion	18-20	\leftrightarrow	\leftrightarrow	
	Nickle Metal Hydride	12-14	\leftrightarrow	\leftrightarrow	
	Lead Acid	10-12	\leftrightarrow	\leftrightarrow	
	Carbon Zinc	10-12	\leftrightarrow	\leftrightarrow	
	Alkaline	12-14	\leftrightarrow	\leftrightarrow	
	Lithium Metal	24-26	\leftrightarrow	\leftrightarrow	
Panasonic	Nickle Metal Hydride	10-12	\leftrightarrow	\leftrightarrow	
	Lead Acid	14-16	\leftrightarrow	7	
	Carbon Zinc	10-12	\leftrightarrow	\leftrightarrow	
	Lithium Metal	18-20	7	\leftrightarrow	
	Lithium Ion	20-22	\leftrightarrow	\leftrightarrow	
Renata Batteries	Nickle Metal Hydride	12-14	\leftrightarrow	\leftrightarrow	
	Silver Oxide	10-12	\leftrightarrow	\leftrightarrow	
	Carbon Zinc	10-12	\leftrightarrow	\leftrightarrow	
	Alkaline	12-14	\leftrightarrow	\leftrightarrow	
VARTA	Lithium Metal	20-26	\leftrightarrow	7	
	Lithium Ion	34-40	\leftrightarrow	\leftrightarrow	
	Nickle Metal Hydride	12-14	\leftrightarrow	\leftrightarrow	

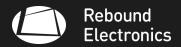


Connectivity

MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
AMS	RFID	30-32	7	\leftrightarrow	1
AVX	Antennas	10-12	\leftrightarrow	\leftrightarrow	
	802.15.4/Zigbee Modules	28	71	71	
CEL	Small Signal, Schottky Diodes, PIN Diodes,Bipolar Transistors,FETs/PHEMTs,Amplifiers,Mixers & Modulators, VCOs, SS Bipolar Transistors,Wideband Transistors	20-22	\leftrightarrow	\leftrightarrow	
Cypress	Bluetooth Modules	28-32	7	7	Cypress is now Infineon
Laird Connectivity	Wi-Fi Modules	38-42	71	7	
Land Connectivity	Antennas	18-22	71	7	
	Cellular Modules	8-12	\leftrightarrow	\leftrightarrow	
Linx Technologies	Antennas	12-14	7	7	
	Transceivers/Receivers	8-12	7	7	
Melexis	Transceivers/Receivers	18	\leftrightarrow	\leftrightarrow	
Welexis	RFID	16-18	\leftrightarrow	\leftrightarrow	
	Wi-Fi Modules	26-28	71	7	
Microchip	Bluetooth Modules	26-28	7	7	
	Transceivers/Receivers	20-22	\leftrightarrow	7	
Minaka	Wi-Fi Modules	28-32	7	\leftrightarrow	
Murata	Bluetooth Modules	54-60	7	7	

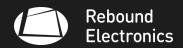


MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
	Multi-Protocol/Chip Solutions	54	7	7	
NXP	Transceivers/Receivers	26	\leftrightarrow	7	
	RFID	54	71	7	Parts on allocation
	High Power IC's	54	7	7	
ON Semiconductor	Bluetooth Modules	18-32	7	7	
Panasonic	Bluetooth Modules	42	7	\leftrightarrow	
Panasonic	RFID	16-18	\leftrightarrow	\leftrightarrow	
Pulse Electronics	Antennas	10-12	\leftrightarrow	\leftrightarrow	SX1243IULTRT is on 40 weeks lead time
Semtech	Transceivers/Receivers	22	7	\leftrightarrow	
Sierra Wireless	Multi-Protocol/Chip Solutions	26-28	7	\leftrightarrow	
	Cellular Modules	28+	7	7	Certain devices are affected by AKM. LT's undertermined
Silex Technology	Wi-Fi Modules	26-30	7	7	
	Bluetooth Modules	32-42	7	7	
ST Microelectronics	Transceivers/Receivers	54	7	7	
	RFID	22-28	7	7	
Taoglas	Antennas	12-14	\leftrightarrow	7	
	Bluetooth Modules	28-54	7	\leftrightarrow	
U-Blox	Cellular Modules	54	7	7	Parts are on allocation
	GPS	28-32	7	7	Increased in pricing on some GPS modules

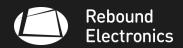


Discrete

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
	SiC Diode	16	7	7	
Alpha Power Solutions	SIC MOSFETS	16	7	7	
AVX	Varistors	18-22	\leftrightarrow	7	
CEL	Optocoupler Components	22	\leftrightarrow	\leftrightarrow	
	Low Voltage MOSFETS	44-54	7	7	
	TVS Diodes	32-38	7	\leftrightarrow	
	Bridge Rectifiers	20-42	7	7	
	Schottky Diodes	18-54	7	7	
	Rectifiers	20-78	7	7	
Diodes Inc.	Switching Diodes	18-54	7	7	
	Small Signal MOSFETS	18-54	7	7	
	Zener Diodes	18-42	7	7	
	Bipolar Transistors	18-54	7	7	
	Digital Transistors	18-42	7	7	
	General Purpose Transistors	14-54	7	7	
	Logic	20-32	7	7	
	ESD	14-16	7	7	
EATON	Fuses	16-22	7	7	
	Clips and Holders	14-18	\leftrightarrow	7	
Everlight	Optocoupler Components	26	7	7	
	Low Voltage MOSFETS	44-54	7	7	
	High Voltage MOSFETS	28-38	7	7	
	IGBTs	28-54	7	7	
	Bridge Rectifiers	14-42	7	7	
	Schottky Diodes	18-54	7	7	
Fairchild (ON Semiconductor)	Rectifiers	16-54	7	7	
	Switching Diodes	10-54	7	7	
	Small Signal MOSFETS	18-54	7	7	
	Zener Diodes	18-54	7	7	
	Bipolar Transistors	14-54	7	7	
	Optocoupler Components	32-52	7	7	
	Low Voltage MOSFETS	16	7	\leftrightarrow	
Goford Semiconductor	Medium Voltage MOSFETS	16	7	\leftrightarrow	
	High Voltage MOSFETS	20	\leftrightarrow	\leftrightarrow	No active parts at the moment
Hollyfuse	Fuses	12-14	\leftrightarrow	\leftrightarrow	



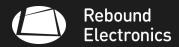
MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
	Low Voltage MOSFETS	42-54	7	7	
	High Voltage MOSFETS	28-42	7	7	
	IGBTs	42-52	7	7	
Infineon	Wide Bandgap Mosfets	38-52	7	7	
	Digital Transistors	14-54	7	7	
	General Purpose Transistors	14-54	7	7	
	Mil-Aero Transistors	32-52	7	7	
Isocom Components	Optocoupler Components	4-6	\leftrightarrow	SMA	
	High Voltage MOSFETS	32-42	7	7	
IXYS	IGBTs	32-42	7	7	
	Thyristors/Triacs	32-42	7	7	
Keystone	Clips and Holders	12-18	7	SMA	
Lite-On	Optocoupler Components	26-32	7	\leftrightarrow	
	ESD	32-50	7	7	
	Diode Arrays	32-50	7	7	
	Varistors	22-36	7	\leftrightarrow	
	Wide Bandgap Mosfets	28-38	7	7	
Littelfuse	Fuses	16-28	7	7	
	PTC Fuses	20-28	7	7	
	Clips and Holders	12-22	\leftrightarrow	7	
	Thyristors/Triacs	22-26	7	SMA	
	TVS Diodes	30-38	7	7	
	Sensors	18-32	7	7	
	Schottky Diodes	22-34	7	\leftrightarrow	
Micro Commercial Components	Switching Diodes	22-34	7	\leftrightarrow	
micro commercial components	Zener Diodes	14-34	7	\leftrightarrow	
	General Purpose Transistors	18-42	7	\leftrightarrow	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
	High Voltage MOSFETS	32-42	7	7	
Mi	IGBTs	42-54	7	7	
Microsemi	Mil-Aero Diodes	34-58	7	7	
	Mil-Aero Transistors	34-62	7	7	
	Low Voltage MOSFETS	44-54	7	7	
	ESD	18-52	7	7	
	Schottky Diodes	18-54	7	7	
	Switching Diodes	18-54	7	7	
Nexperia	Small Signal MOSFETS	18-54	7	7	
	Zener Diodes	18-54	7	7	
	Bipolar Transistors	18-54	7	7	
	Digital Transistors	18-54	7	7	
	General Purpose Transistors	18-54	7	7	
	Logic	42-52	7	7	
	Low Voltage MOSFETS	44-54	7	7	
	ESD	22-52	7	7	
	Wide Bandgap Mosfets	38-52	7	7	
	Schottky Diodes	18-54	7	7	
	Rectifiers	10-54	7	7	
ON Coming desired	Switching Diodes	18-54	7	7	
ON Semiconductor	Small Signal MOSFETS	18-54	7	7	
	Zener Diodes	18-54	7	7	
	Bipolar Transistors	18-54	7	7	
	Digital Transistors	18-54	7	7	
	General Purpose Transistors	18-54	7	7	
	Logic	32-52	7	7	
ProTek Devices	Diode Arrays	14-18	7	7	
Renesas	Optocoupler Components	48	7	7	
	High Voltage MOSFETS	28-32	7	\leftrightarrow	
	Wide Bandgap Mosfets	28-38	7	\leftrightarrow	
	Schottky Diodes	14-54	7	\leftrightarrow	
ROHM	Switching Diodes	14-54	7	\leftrightarrow	
	Digital Transistors	16-54	7	\leftrightarrow	
	General Purpose Transistors	14-54	7	\leftrightarrow	

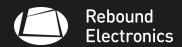


MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Schurter	Fuses	14-22	\leftrightarrow	\leftrightarrow	
Schulter	Clips and Holders	14-18	\leftrightarrow	7	
Ctt-	Diode Arrays	22-24	7	\leftrightarrow	
Semtech	Mil-Aero Diodes	42-52	7	\leftrightarrow	
	Low Voltage MOSFETS	44-54	7	7	
	High Voltage MOSFETS	28-38	7	\leftrightarrow	
	IGBTs	38-44	7	7	
	ESD	22-42	7	7	
ST Microelectronics	Wide Bandgap Mosfets	32-42	7	7	
	Thyristors/Triacs	44-54	7	7	
	TVS Diodes	32-42	7	7	
	Rectifiers	40-42	7	7	
	Bipolar Transistors	22-42	7	7	
	Low Voltage MOSFETS	44-54	7	7	
	ESD	22-52	7	7	
	Wide Bandgap Mosfets	38-52	7	7	
	Schottky Diodes	18-54	7	7	
	Rectifiers	10-54	7	7	
Taiwan Semiconductor	Switching Diodes	18-54	7	7	
	Small Signal MOSFETS	18-54	7	7	
	Zener Diodes	18-54	7	7	
	Bipolar Transistors	18-54	7	7	
	Digital Transistors	18-54	7	7	
	General Purpose Transistors	18-54	7	7	
	Logic	32-52	7	7	
TDK EPCOS	Varistors	24-30	7	\leftrightarrow	
TE Connectivity	PTC Fuses	22-32	7	7	
	Low Voltage MOSFETS	44-54	7	7	
	High Voltage MOSFETS	42-52	7	7	
	TVS Diodes	32-48	7	7	
Vishay	Bridge Rectifiers	28-84	7	7	
	Rectifiers	38-74	7	7	
	Zener Diodes	22-42	7	7	
	Optocoupler Components	26-42	7	7	



Electromechanical

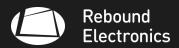
MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
AVX	Timing	14-16	\leftrightarrow	7	
Aavid	Fans	14-16	\leftrightarrow	7	
Aaviu	Heatsinks	14-16	\leftrightarrow	7	
Abracon	Timing	14-54+	7	SMA	
ADDA	Fans	16-18	\leftrightarrow	7	
Alps Electric	Switches	14-26	7	\leftrightarrow	
American Zettler	Relays	14-54+	7	SMA	
Bivar	Hardware	8-10	\leftrightarrow	\leftrightarrow	
C&K	Switches	14-32	7	7	
Citizen Finedevice	Timing	14-54	7	7	
COSEL	Power Supplies (AC/DC)	14-22	7	\leftrightarrow	
COST	Power Supplies (DC/DC)	14-18	7	\leftrightarrow	
стѕ	Switches	10-12	\leftrightarrow	\leftrightarrow	
	Timing	14-20	7	7	
	Power Supplies (AC/DC)	18-26	7	\leftrightarrow	
CUI Inc	Power Supplies (DC/DC)	16-20	\leftrightarrow	\leftrightarrow	
	Heatsinks	12-14	\leftrightarrow	\leftrightarrow	
Delta	Fans	42	7	\leftrightarrow	
Diodes Inc	Timing	12-52	71	\leftrightarrow	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
E-Switch	Switches	12-14	\leftrightarrow	7	
EPSON Electronics America	Timing	42+	7	71	
Fox	Timing	12-42+	7	71	
Grayhill	Switches	18-20	7	\leftrightarrow	
Неусо	Hardware	8-10	\leftrightarrow	\leftrightarrow	
Hongfa	Relays	18-54+	7	\leftrightarrow	Longer lead time on odd relay series
Infineon	Relays	20-24	\leftrightarrow	\leftrightarrow	
IXYS	Relays	12-32	7	\leftrightarrow	
Keystone	Hardware	6-8	\leftrightarrow	7	
Kyocera International	Timing	30	7	\leftrightarrow	
Meanwell	Power Supplies (AC/DC)	20-34	7	7	
Mornsun	Power Supplies (AC/DC)	6-12	7	71	
IVIOLISMI	Power Supplies (DC/DC)	6-12	7	7	
Murata	Timing	10-12	\leftrightarrow	\leftrightarrow	
	Power Supplies (AC/DC)	28-34	7	7	
Murata Power Solutions	Power Supplies (DC/DC)	14-20	71	\leftrightarrow	

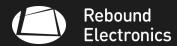


MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Myrra	Power Supplies (AC/DC)	20-28	7	7	Extended lead time and all ranges are in shortage
NKK Switches	Switches	12-20	\leftrightarrow	71	
NMB	Fans	16-18	7	\leftrightarrow	
Ohmite	Fans	12-14	7	71	
Omron	Sensors	36	7	7	
	Switches	22+	\leftrightarrow	\leftrightarrow	
Panasonic	Relays	16-38	\leftrightarrow	\leftrightarrow	
	Switches	12-14	\leftrightarrow	\leftrightarrow	
Qualtek	Fans	16-18	\leftrightarrow	\leftrightarrow	
Ralton	Timing	12-42	\leftrightarrow	SMA	
RECOM	Power Supplies (AC/DC)	20-26	7	71	
RECOIV	Power Supplies (DC/DC)	16-26	\leftrightarrow	7	
Schneider Electric	Relays	16-18	\leftrightarrow	\leftrightarrow	
Song Chuan	Relays	26-62	7	\leftrightarrow	
SUNON	Fans	18-28	7	71	
TE Connectivity Sensors	Relays	14-16	\leftrightarrow	\leftrightarrow	
TE Connectivity Sensors	Switches	12-14	\leftrightarrow	\leftrightarrow	
Vicor	Power Supplies (AC/DC)	28-34	7	71	
VICOI	Power Supplies (DC/DC)	28-34	7	71	



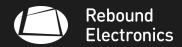
High-End

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Compulab	SOM	22	7	7	
	8 bit MCU	48	7	\leftrightarrow	
Q	32 bit MCU	48	7	\leftrightarrow	
Cypress	USB	34-54	7	7	
	Automotive	22-26	\leftrightarrow	\leftrightarrow	
DKE	E-paper Display	52-75	7	7	Virtually no capacity until 2023
Formerica	Fibre Optic Transceivers	20-22	7	\leftrightarrow	
Infineon	Automotive	34-48	7	\leftrightarrow	
Lattice Semiconductor	FPGA	36-38	7	7	
	8 bit MCU	32-58	7	7	
	32 bit MCU	42-58	7	7	
Microchip	PHY/ Ethernet	32-54	7	7	
	USB	32-54	7	7	
	32 bit MPU	32-54	7	7	
Microsemi	FPGA	36-54	7	7	
	PHY/ Ethernet	32-54	7	7	
	8 bit MCU	28-54	7	7	
	32 bit MCU	28-54	7	\leftrightarrow	
NXP	Automotive	Allocation	7	7	
	32 bit MPU	26-54	7	7	
	Network Processors	20-54	7	7	
Raystar	LCDs	24	7	7	
	8 bit MCU	28	7	7	
Renesas	32 bit MCU	28	7	\leftrightarrow	
	Automotive	32	\leftrightarrow	\leftrightarrow	
	32 bit MPU	32	\leftrightarrow	7	
Renesas Synergy	32 bit MCU	28	7	SMA	
Sharp	LCDs	42-46	7	7	
	8 bit MCU	Allocation	7	7	
	Automotive	Allocation	7	7	
	32 bit MPU	22-28	7	7	
ST Microelectronics	STM32F0- 32 bit MCU	Allocation	\leftrightarrow	7	
	STM32F1- 32 bit MCU	Allocation	\leftrightarrow	7	
	STM32L- 32 bit MCU	38-54	7	7	
Zilog	8 bit MCU	26-42	7	7	

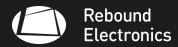


Interconnect

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
	D-Sub Connectors	16-18	7	7	
Adam Tech	PCB Connectors	16-18	7	7	
Altech Corp.	Terminal Blocks & Crimps	8-10	\leftrightarrow	7	
	D-Sub Connectors	10-12	\leftrightarrow	7	
Annahanal ISS	Data & Telecom	10-12	\leftrightarrow	7	
Amphenol ICC	PCB Connectors	10-12	\leftrightarrow	7	
	FFC/FPC	10-12	\leftrightarrow	7	
Amphenol Sine System	Circular Connectors	22	7	7	
AVX	Lighting Connectors	12-14	\leftrightarrow	\leftrightarrow	
Connfly	PCB Connectors	12-14	\leftrightarrow	\leftrightarrow	
Degson	Terminal Blocks & Crimps	20	\leftrightarrow	\leftrightarrow	
EDAC	PCB Connectors	12-16	7	7	
Greenconn Technology	PCB Connectors	4	\leftrightarrow	\leftrightarrow	

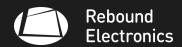


MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
HALO Electronics	Data & Telecom	32	7	7	•
HARTING	PCB Connectors	12-14	7	7	
	PCB Connectors	14-16	71	7	
Hirose Electric	RF Connectors	12-16	71	7	
	FFC/FPC	14-16	71	7	
JST	PCB Connectors	24-42	71	7	
Mil-Max	PCB Connectors	8-10	\leftrightarrow	\leftrightarrow	
IVIII-IVIAX	IC Sockets	8-10	\leftrightarrow	\leftrightarrow	
Omron	PCB Connectors	22+	\leftrightarrow	\leftrightarrow	Extended lead time
Sullins	PCB Connectors	8-10	\leftrightarrow	\leftrightarrow	
	Automotive Connectors	32-42	7	\leftrightarrow	
	Circular Connectors	30-32	\leftrightarrow	7	
	Relays	38-40	Ľ	\leftrightarrow	
	D-Sub Connectors	10-12	\leftrightarrow	\leftrightarrow	
TE Connectivity	Data & Telecom	10-12	\leftrightarrow	\leftrightarrow	Price increases effective since July 5 th 2021
	PCB Connectors	18-20	\leftrightarrow	\leftrightarrow	,
	RF Connectors	14-16	\leftrightarrow	71	
	IC Sockets	8-10	\leftrightarrow	\leftrightarrow	
	Terminal Blocks & Crimps	16-18	\leftrightarrow	\leftrightarrow	
	Lighting Connectors	10-12	\leftrightarrow	7	
WAGO	Terminal Blocks & Crimps	10-12	7	7	
	Lighting Connectors	10-12	7	7	
WECO	Terminal Blocks & Crimps	14-18	7	71	



Opto/Lighting

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Bridgelux	Chip On Board (CoB)	12-14	\leftrightarrow	7	
Dialiaha	Indication LEDs	14-18	7	\leftrightarrow	
Dialight	6V (LED Optics)	12-18	\leftrightarrow	\leftrightarrow	
	Automotive LEDs (AEC-Q101 Certified)	10-12	\leftrightarrow	\leftrightarrow	
Everlight	Infrared Components/ LED	12-14	7	\leftrightarrow	
Everiignit	Indication LEDs	10-12	7	\leftrightarrow	
	UV LEDs	10-12	\leftrightarrow	\leftrightarrow	
Excellence Optoelectronics Inc.	Automotive LEDs (AEC-Q101 Certified)	10-12	\leftrightarrow	\leftrightarrow	
General Luminaire	Standard Light Engines (Level 2 Boards)	16-18	7	7	
Inolux	Indication LEDs	8-10	\leftrightarrow	\leftrightarrow	
Kingbright	LED Displays	12-14	Ľ	\leftrightarrow	
garigin	Indication LEDs	10-12	\leftrightarrow	\leftrightarrow	
	Infrared Components/ LED	14-16	7	\leftrightarrow	
Lite-On	LED Displays	10-12	\leftrightarrow	\leftrightarrow	
	Indication LEDs	18-22	7	\leftrightarrow	
Luman	LED Displays	18	7	\leftrightarrow	
Lumex	Indication LEDs	10-16	\leftrightarrow	\leftrightarrow	
	Illumination High Power LEDs (White)	20-28	7	SMA	
	Illumination High Power LEDs (Colors)	20-28	7	7	
	Illumination High Power LEDs (White & Colors)	14-16	7	\leftrightarrow	
	Horitcultural Mid Power LEDs (White & Colors)	14-16	Ľ	\leftrightarrow	
Lumileds	Automotive LEDs (AEC-Q101 Certified)	16-18	7	7	
	Chip On Board (CoB)	20-28	7	7	
	Standard Light Engines (Level 2 Boards)	20-28	7	7	
	Infrared Components/ LED	28	7	\leftrightarrow	
	UV LEDs	ТВС	7	\leftrightarrow	
Meanwell	LED Drivers	12-32	\leftrightarrow	\leftrightarrow	
Murata	Lighting Controls	28-32	\leftrightarrow	\leftrightarrow	

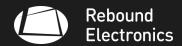


MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
	Illumination High Power LEDs (White)	14-16	Ľ	\leftrightarrow	
	Illumination High Power LEDs (Colors)	14-16	Ľ	\leftrightarrow	
Nichia	Illumination High Power LEDs (White & Colors)	16-18	Ľ	\leftrightarrow	
	Horitcultural Mid Power LEDs (White & Colors)	14-16	Ľ	\leftrightarrow	
	Chip On Board (CoB)	14-16	Ľ	7	
Raystar	OLEDs	36	7	7	
Naystai	TFT Displays	36	7	7	
конм	Infrared Components/ LED	8-10	\leftrightarrow	\leftrightarrow	
Konw	Indication LEDs	12-14	\leftrightarrow	\leftrightarrow	
	Illumination High Power LEDs (White)	14-16	Ľ	\leftrightarrow	
	Illumination High Power LEDs (White & Colors)	10-22	Ľ	7	
Samsung LED	Horitcultural Mid Power LEDs (White & Colors)	16-18	Ľ	\leftrightarrow	
	Chip On Board (CoB)	14-16	Ľ	\leftrightarrow	
	Standard Light Engines (Level 2 Boards)	12-14	7	\leftrightarrow	
	Illumination High Power LEDs (White)	12-14	\leftrightarrow	\leftrightarrow	
	Illumination High Power LEDs (White & Colors)	8-10	\leftrightarrow	\leftrightarrow	
Seoul Semiconductor	Horitcultural Mid Power LEDs (White & Colors)	8-10	\leftrightarrow	SMA	
	Chip On Board (CoB)	10-12	\leftrightarrow	\leftrightarrow	
	Standard Light Engines (Level 2 Boards)	12-14	7	\leftrightarrow	
Seoul Viosys	UV LEDs	10-12	7	\leftrightarrow	
Stanley Electric	LED Displays	14	\leftrightarrow	\leftrightarrow	
Statiley Electric	Indication LEDs	12-14	\leftrightarrow	\leftrightarrow	
SunLed	LED Displays	14	\leftrightarrow	\leftrightarrow	
Team Source	TFT Displays	30-40	7	7	
TE Connectivity	6A (Heat Sinks, LED Holders)	14-22	\leftrightarrow	\leftrightarrow	
TT Electronics- Optek Technology	Infrared Components/ LED	18-22	7	\leftrightarrow	
vcc	Indication LEDs	14	\leftrightarrow	7	
	Infrared Components/ LED	22-54	7	7	
Vishay	Indication LEDs	22-54	7	7	
	UV LEDs	16-18	7	\leftrightarrow	



Memory

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
	Memory Modules	12-14	\leftrightarrow	\leftrightarrow	
ADATA	еММС	14-18	\leftrightarrow	\leftrightarrow	
ADATA	Memory Cards	12-14	\leftrightarrow	\leftrightarrow	
	Solid State Drives (SSD)	10-14	7	7	
Adesto Technologies	NOR Flash	20-42	\leftrightarrow	71	
Adesto recimologies	DATA Flash	42-54	\leftrightarrow	\leftrightarrow	
	PC (Commodity) DRAM	22-28	\leftrightarrow	\leftrightarrow	
	Mobile DRAM	28-32	7	\leftrightarrow	
Alliance Memory	SRAM	16-28	\leftrightarrow	\leftrightarrow	
	NOR Flash	18-22	\leftrightarrow	\leftrightarrow	
	SRAM	14-42	\leftrightarrow	7	
Cypress	NOR Flash	22-54	\leftrightarrow	7	
	FRAM & NVSRAM	18-38	\leftrightarrow	7	
Everspin Technologies	MRAM	14-30	\leftrightarrow	\leftrightarrow	
	NOR Flash	20-30	\leftrightarrow	\leftrightarrow	
Greenliant	еММС	24-26	\leftrightarrow	\leftrightarrow	
dreemant	Memory Cards	20-28	7	\leftrightarrow	
	Solid State Drives (SSD)	20-28	7	7	
	PC (Commodity) DRAM	10-12	\leftrightarrow	7	
	Mobile DRAM	54+	\leftrightarrow	\leftrightarrow	Kingston LPDDR4 is EOL
Kingston	Memory Modules	10-12	\leftrightarrow	\leftrightarrow	
Kiligstoli	eMMC	12-14	\leftrightarrow	\leftrightarrow	
	Memory Cards	8-42	\leftrightarrow	\leftrightarrow	
	Solid State Drives (SSD)	10-14	7	7	
	NOR Flash	30-34	7	7	
Macronix	SLC NAND Flash	30-34	7	7	
	eMMC	54-56	7	7	Parts on allocation, MXIC is not quoting and not taking new orders for the time being

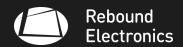


MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
	NOR Flash	14-26	\leftrightarrow	\leftrightarrow	
Microchip	EEPROM	14-54	\leftrightarrow	\leftrightarrow	
	EPROM	14-22	\leftrightarrow	\leftrightarrow	
	PC (Commodity) DRAM	54-56	7	7	
Micron	Memory Modules	54-56	7	7	
	eMMC	54-56	7	7	
	Solid State Drives (SSD)	54	7	7	
ON Semiconductor	EEPROM	10-22	\leftrightarrow	7	
Renesas	SRAM	22-24	\leftrightarrow	\leftrightarrow	
	PC (Commodity) DRAM	54-56	7	7	
Samsung	Memory Modules	54-56	7	,,	Parts on allocation, Samsung is not quoting and not taking new orders for the
	eMMC	54-56	7	7	time being
	Solid State Drives (SSD)	54	7	7	
SkyHigh Memory	SLC NAND Flash	20-22	7	7	
	еММС	20-22	7	7	
STMicroelectronics	EEPROM	28-38	7	\leftrightarrow	

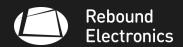


Passives

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Apl Delevan	Inductors	16-20	\leftrightarrow	\leftrightarrow	
AVX	Capacitors- Supercapacitors	16-18	\leftrightarrow	7	
	Capacitors- Tantalum Molded	32-36	\leftrightarrow	\leftrightarrow	
	Capacitors- Tantalum Conformals	54	\leftrightarrow	\leftrightarrow	
	Capacitors- Polymer Tantalum	22	\leftrightarrow	\leftrightarrow	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf) Surface Mount General Capacitors-	22-28	\leftrightarrow	\leftrightarrow	
	Ceramic (Greater than 1 uf)	26-28	\leftrightarrow	\leftrightarrow	Excludes 1206+ sizes
	Leaded Capacitors- Ceramic	32	\leftrightarrow	\leftrightarrow	
	Specialty Capacitors	32-36	\leftrightarrow	\leftrightarrow	
Coilmaster Electronics	Filters- Common Mode Choke	8-10	\leftrightarrow	\leftrightarrow	
	High Frequency Transformer	10-12	\leftrightarrow	7	
	Inductors	12-14	\leftrightarrow	\leftrightarrow	
	LAN Magnetics Transformer	6-8	\leftrightarrow	\leftrightarrow	
стѕ	Resistor Networks	18-42	7	7	
Eaton	Capacitors- Supercapacitors	20-30	7	7	
Eaton	Inductors	18-30	7	7	
ELNA	Capacitors- Supercapacitors	24-36	7	7	
Faratronic	Capacitors- Film	12-18	7	\leftrightarrow	
HALO Electronics	Inductors	44-54	7	\leftrightarrow	
	Filters	14-22	7	\leftrightarrow	
	Inductor / Transformers	14-22	7	7	
Murata	Surface Mount General Capacitors- Ceramic (Less than 1 uf) Surface Mount General Capacitors-	26-28	\leftrightarrow	\leftrightarrow	
	Ceramic (Greater than 1 uf)	32-36	\leftrightarrow	\leftrightarrow	Excludes 1206+ sizes
	Leaded Capacitors- Ceramic	22-26	\leftrightarrow	\leftrightarrow	
	Specialty Capacitors	22-28	\leftrightarrow	\leftrightarrow	
NIC Components	Electrolytic	24-42	7	7	
	Filters	16-22	7	7	
	Inductors	16-22	7	\leftrightarrow	
	Fixed Resistors	14-20	7	7	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf) Surface Mount General Capacitors-	24-32	\leftrightarrow	\leftrightarrow	
	Ceramic (Greater than 1 uf)	32-40	\leftrightarrow	\leftrightarrow	Excludes 1206+ sizes
	Leaded Capacitors- Ceramic	28-30	\leftrightarrow	\leftrightarrow	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Nichicon	Electrolytic	32-52	7	7	
Nippon Chemi-Con	Electrolytic	28-36	\leftrightarrow	7	
	Electrolytic	26-52	7	7	
	Capacitors- Polymer Tantalum	22-24	\leftrightarrow	7	
Panasonic	Inductors	22-30	\leftrightarrow	\leftrightarrow	
	Fixed Resistors	28-54	7	7	
	Resistor Networks	28-54	7	7	
Pancon Corp Paktron	Capactors- Film	12-14	\leftrightarrow	7	
Royal Ohm	Resistor Networks	12-20+	\leftrightarrow	7	Pricing volatile dependent on quarterly raw material pricing reviews
Samwha Electric	Electrolytic	30+	7	\leftrightarrow	
	Fixed Resistors	48	\leftrightarrow	7	
Samsung Electro-Mechanics	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	26-28	\leftrightarrow	\leftrightarrow	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	26-28	\leftrightarrow	\leftrightarrow	Excludes 1206+ sizes
Stackploe Electronics	Fixed Resistors	20-32	7	7	
Sumida	Inductors	28-38	7	\leftrightarrow	
Taiyo Yuden	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	32	\leftrightarrow	\leftrightarrow	
Talyo Tudeli	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	32-36	\leftrightarrow	\leftrightarrow	
	Filters	28-42	7	7	
TDV	Inductors	16-32	7	7	
TDK	Surface Mount General Capacitors- Ceramic (Less than 1 uf) Surface Mount General Capacitors-	22-24	7	\leftrightarrow	
	Ceramic (Greater than 1 uf)	24-30	7	\leftrightarrow	Excludes 1206+ sizes
TDK EPCOS	Capacitors- Film	26-54	7	\leftrightarrow	
	Filters	22-28	\leftrightarrow	\leftrightarrow	



MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
TT Electronics- BI Technologies	Trimmers & Pots	14-22	7	7	•
TT Electronics- IRC	Fixed Resistors	22-32	7	7	
United Chemi-Con	Electrolytic	30-42	7	7	
Viking	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	42	\leftrightarrow	\leftrightarrow	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	26-30	7	\leftrightarrow	Excluding 1206+ sizes
Vishay	Trimmers & Pots	12-20	7	7	
	Capacitors- Film	18-26	7	7	
	Capacitors- Supercapacitors	16-22	7	\leftrightarrow	
	Capacitors- Tantalum Molded	42-52	\leftrightarrow	7	
	Capacitors- Tantalum Conformals	16-18	\leftrightarrow	\leftrightarrow	
	Capacitors- Polymer Tantalum	22-32	7	\leftrightarrow	
	Inductors / Transformers	14-22	\leftrightarrow	\leftrightarrow	
	Fixed Resistors	32-54	7	7	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	22-32	\leftrightarrow	\leftrightarrow	
	Leaded Capacitors- Ceramic	14-18	7	\leftrightarrow	
	Specialty Capacitors	14-16	\leftrightarrow	\leftrightarrow	
WIMA	Capacitors- Film	18-26	7	7	
Wurth Elektronik	Inductors / Transformers	28-42	7	7	
Yageo	Fixed Resistors	26-30	7	7	
	Resistor Networks	26-30	7	7	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	28-32	\leftrightarrow	\leftrightarrow	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	28-32	\leftrightarrow	\leftrightarrow	Excluding 1206+ sizes

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