

MARKET CONDITIONS REPORT

The following information has been gathered from multiple sources and qualified by Future Electronics Product Marketing.
The information is intended to provide guidance only and should be treated accordingly.
Future Electronics offers world-class supply chain programs to mitigate market supply and demand volatility.
Contact your Account Manager to discuss our solutions in more detail



ANALOG

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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Sensors	AMS	16-52+	Stable	Stable
	Bosch	14-16	Stable	Stable
	Diodes Inc	8-14	Stable	Stable
	Infineon	8-39	Stable	Stable
	Melexis	16-30	Stable	Increasing
	NXP (Freescale)	12-30	Increasing	Stable
	ON Semiconductor	18-24	Stable	Stable
	Panasonic	12-18	Stable	Stable
	Rohm Semiconductor	12-24	Stable	Stable
	STMicroelectronics	14-20	Stable	Stable
	TE Sensors	10-24	Stable	Stable
	Vishay	14-18	Stable	Stable
Signal Chain (Amplifiers and Data Converters)	Intersil	8-10	Stable	Stable
	Microchip	8-10	Stable	Stable
	Maxim Integrated	6-7	Stable	Stable
	On Semiconductor	12-24+	Stable	Stable
	STMicroelectronics	12-24+	Decreasing	Stable
Timing	IDT	8-10	Stable	Stable
	Microchip	8-10	Stable	Stable
	Microsemi	10-12	Stable	Stable
	ON Semiconductor	10-12	Stable	Stable
	Pericom	8-10	Stable	Stable



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Multi-source Analog/Power	ST Micro	12-24+	Decreasing	Stable
	Diodes Inc	14-16	Stable	Stable
	ON Semiconductor	12-24+	Decreasing	Stable
Interface	Exar	10-12	Stable	Stable
	NXP	10-12	Stable	Stable
	Maxim	6-7	Stable	Stable
	FDTI	14-16	Stable	Stable
Switching Regulators	Intersil	8-10	Stable	Stable
	STMicroelectronics	12-24+	Decreasing	Stable
	Microchip	10-12	Decreasing	Stable
	ON Semiconductor	15+	Stable	Stable
	Monolithic Power	8-10	Stable	Stable
	Diodes Inc	15+	Stable	Stable
	Maxim	6-7	Stable	Stable
	Rohm	8-10	Stable	Stable
	Infineon	18-20	Decreasing	Stable
Analog and Power for Automotive (CAN/ LIN/ Smart FET	Infineon	25+	Stable	Stable
	NXP	20+	Stable	Stable
	STMicroelectronics	25+	Stable	Stable



BATTERIES

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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Alkaline	GP Batteries	8-10	Stable	Stable
	Panasonic	10-12	Stable	Stable
	Rayovac	8-10	Stable	Stable
	Varta	10-12	Stable	Stable
Lithium Metal	GP Batteries	10-12	Stable	Stable
	Panasonic	14-16	Stable	Stable
	Rayovac	8-10	Stable	Stable
	Renata	12-14	Stable	Stable
	Tadiran	18-24	Stable	Stable
	Varta	18-24	Stable	Increasing
Lithium Ion	GP Batteries	10-12	Stable	Stable
	Varta	18-24	Stable	Stable
Nickle Metal Hydride	GP Batteries	10-12	Stable	Stable
	Panasonic	8-10	Stable	Stable
	Rayovac	8-10	Stable	Stable
	Renata	10-12	Stable	Stable
	Varta	10-12	Stable	Stable
Lead Acid	GP Batteries	8-10	Stable	Stable
	Panasonic	10-12	Stable	Increasing
Silver Oxide	Renata	8-10	Stable	Stable
Carbon Zinc	GP Batteries	8-10	Stable	Stable
	Panasonic	8-10	Stable	Stable
	Rayovac	8-10	Stable	Stable
	Renata	8-10	Stable	Stable



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Wi-Fi Modules	Microchip	18-20	Increasing	Stable
	Red Pine	18-20	Stable	Increasing
	Murata	22-26	Stable	Stable
	Silex	14-16	Stable	Stable
Bluetooth modules	Microchip	18-20	Increasing	Stable
	STMicroelectronics	12-16	Stable	Stable
	Panasonic	16-18	Stable	Stable
	Murata	22-26	Stable	Stable
	Amp'd RF	6-8	Stable	Stable
802.15.4/zig bee modules	Synapse	14-16	Stable	Stable
	Panasonic	14-16	Stable	Stable
	California Eastern Labs	14-16	Increasing	Stable
High Power IC's	NXP	18	Stable	Stable
Small Signal, Schottky Diodes, PIN Diodes, Bipolar Transistors, FETs/PHEMTs, Amplifiers, Mixers & Modulators, VCOs, SS Bipolar Transistors, Wideband Transistors	California Eastern Labs	17-19	Stable	Increasing



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Cellular modules	Sierra Wireless	18-20	Decreasing	Stable
	Linx Technology	6-10	Stable	Stable
	Multi-Tech Systems	10-12	Stable	Stable
	Gemalto	12-14	Increasing	Stable
Antennas	Linx Technologies	6-8	Stable	Stable
	Nearson	4-6	Stable	Stable
Transceivers/Receivers	NXP	8-10	Stable	Stable
	Melexis	16	Stable	Increasing
	Linx Technologies	6-8	Stable	Increasing
	Microchip	14-16	Increasing	Stable
RFID	AMS	28-30	Increasing	Stable
	Panasonic	14-16	Stable	Stable
	NXP	10-12	Stable	Stable
	STMicroelectronics	8-10	stable	Stable
	Melexis	14-16	Stable	Increasing



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Low Voltage Mosfets	Infineon	36-50	Stable	Stable
	Diodes Inc.	32-40	Stable	Stable
	Fairchild (ON Semiconductor)	24-40	Decreasing	Stable
	ON Semiconductor	22-36	Decreasing	Stable
	Nexperia	27-36	Decreasing	Stable
	STMicroelectronics	33-44	Stable	Stable
	Vishay	36-44	Stable	Stable
High Voltage Mosfets	Infineon	26-36	Decreasing	Stable
	Fairchild (ON Semiconductor)	26-36	Decreasing	Stable
	IXYS	36-44	Stable	Increasing
	STMicroelectronics	38-50	Stable	Stable
	ROHM	26-36	Decreasing	Stable
	Microsemi	26-40	Stable	Stable
	Vishay	16-20 & 40	Decreasing	Stable
IGBTs	Fairchild	22-40	Decreasing	Stable
	Infineon	20-40	Decreasing	Stable
	Microsemi	36-44	Stable	Stable
	IXYS	36-44	Stable	Increasing
	STMicroelectronics	44-50	Stable	Stable
ESD	Littelfuse	12-16	Stable	Stable
	ON Semiconductor	14-16	Decreasing	Stable
	Cooper Bussmann	20-24	Decreasing	Increasing
	STMicroelectronics	16-20	Increasing	Stable
	Nexperia	12-26	Decreasing	Selective Market Adjustments
Diode Arrays	Littelfuse	8-10	Stable	Stable
	Semtech	6-8	Stable	Stable
	Protek	12-14	Stable	Stable
Varistors	Littelfuse	8-10	Stable	Stable
	AVX	14-16	Stable	Stable
	Epcos	14-16	Stable	Stable
	Maida	8-10	Stable	Stable



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Fuses	Littelfuse	8-10	Stable	Stable
	Cooper Bussmann	10-14	Increasing	Increasing
	Schurter	8-10	Stable	Stable
PTC Fuses	TE Connectivity / Raychem	8-10	Stable	Stable
	Littelfuse	8-10	Stable	Stable
Clips and holders	Littelfuse	10-12	Stable	Stable
	Cooper Bussmann	8-10	Stable	Stable
	Keystone	8-10	Stable	Stable
	Schurter	8-10	Stable	Stable
Thyristors/triacs	STMicroelectronics	20-25	Decreasing	Increasing
	Littelfuse	8-12	Stable	Stable
	Ixys	50-52	Increasing	Increasing
TVS Diodes	Diodes Inc	12-16	Increasing	Stable
	Littelfuse	16	Decreasing	Selective Market Adjustments
	Vishay	25-40	Decreasing	Increasing
	STMicroelectronics	8	Stable	Stable
Sensors	Littelfuse	12	Stable	Stable



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Bridge Rectifiers	Diodes Inc	16-32	Stable	Stable
	Fairchild	5-15	Decreasing	Selective Market Adjustments
	Vishay	8-16	Decreasing	Stable
Schottky Diodes	Diodes Inc	12-32	Decreasing	Stable
	Nexperia	8-26	Decreasing	Selective Market Adjustments
	ON Semiconductor	6-20	Decreasing	Selective Market Adjustments
	Fairchild	12-26	Decreasing	Stable
Rectifiers	Diodes Inc	8-32	Decreasing	Stable
	Vishay	8-22	Decreasing	Stable
	ON Semiconductor	5-15	Decreasing	Selective Market Adjustments
	STMicroelectronics	10-32	Decreasing	Stable
	Fairchild	5-15	Decreasing	Selective Market Adjustments
Switching Diodes	Diodes Inc	12-32	Decreasing	Stable
	Fairchild	12-26	Decreasing	Stable
	ON Semiconductor	6-20	Decreasing	Selective Market Adjustments
	Nexperia	8-26	Decreasing	Selective Market Adjustments
Small Signal Mosfets	Diodes Inc	12-32	Decreasing	Stable
	Fairchild	12-40	Decreasing	Stable
	Nexperia	8-26	Decreasing	Selective Market Adjustments
	ON Semiconductor	8-30	Decreasing	Selective Market Adjustments



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Zener Diodes	Diodes	12-32	Decreasing	Stable
	Fairchild	12-26	Decreasing	Stable
	Nexperia	8-26	Decreasing	Selective Market Adjustments
	ON Semiconductor	8-20	Decreasing	Selective Market Adjustments
	Vishay	12-50	Decreasing	Stable
Bipolar Transistors	Diodes Inc	12-32	Decreasing	Stable
	Fairchild	12-26	Decreasing	Stable
	ON Semiconductor	6-20	Decreasing	Selective Market Adjustments
	STMicroelectronics	12-20	Decreasing	Stable
Digital Transistors	Diodes Inc	12-32	Decreasing	Stable
	ON Semiconductor	6-20	Decreasing	Selective Market Adjustments
	Nexperia	8-26	Decreasing	Selective Market Adjustments
	Rohm Semiconductor	10-20	Decreasing	Stable
General Purpose Transistors	Diodes Inc	12-32	Decreasing	Stable
	Fairchild	12-26	Decreasing	Stable
	Nexperia	8-26	Decreasing	Selective Market Adjustments
	ON Semiconductor	6-20	Decreasing	Selective Market Adjustments
	Rohm Semiconductor	10-20	Decreasing	Stable
Optocoupler Components	CEL (Renesas)	26-28	Increasing	Stable
	Everlight	8-12	Stable	Stable
	Fairchild (ON Semiconductor)	12-18	Decreasing	Stable
	Isocom	1-2	Stable	Stable
	Lite-On	10-12	Stable	Stable
	Socle (formerly Sharp)	18	Decreasing	Stable
	Vishay	8-12	Increasing	Stable
Logic	Nexperia	8-12	Decreasing	Selective Market Adjustments
	Diodes Inc	16-18	Stable	Stable
	ON Semiconductor	20	Decreasing	Stable



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Power Supplies (AC/DC)	Cosel	12-20	Stable	Stable
	CUI Inc.	10-12	Stable	Stable
	Mean Well	12-14	Stable	Stable
	Murata Power Solutions	12-14	Stable	Stable
	Recom Power	12-18	Stable	Stable
	Vicor Corporation	16-18	Decreasing	Stable
	Wall	8-10	Stable	Stable
Power Supplies (DC/DC)	Cosel	12-16	Decreasing	Stable
	CUI Inc.	12-14	Stable	Stable
	Murata Power Solutions	12-14	Stable	Stable
	Recom Power	12-18	Stable	Stable
	Vicor Corporation	16-18	Decreasing	Stable
	Wall	8-10	Stable	Stable
Relays	American Zettler	12-26	Increasing	Stable
	Hongfa Relays	12-42	Increasing	Stable
	Infineon	18-22	Stable	Stable
	IXYS IC/ Clare	8-14	Stable	Stable
	Littelfuse/Hamlin	10-12	Stable	Stable
	Panasonic	14-26	Stable	Stable
	Schneider/Magnecraft	12-14	Stable	Stable
	Song Chuan	16-18	Stable	Stable
	TE Connectivity (*all stable except the IM Relay series - allocation - 52+ weeks)	12-14	Stable	Stable
Solder	Indium	2-4	Stable	Increasing
	Kester	2-4	Stable	Increasing



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Switches	C&K	10-18	Increasing	Stable
	Alps	10-20	Stable	Stable
	CTS	8-10	Stable	Stable
	E-Switch	10-12	Stable	Increasing
	Grayhill	10-12	Stable	Stable
	NKK Switches	10-18	Stable	Increasing
	Panasonic	8-10	Stable	Stable
	TE Connectivity	10-12	Stable	Stable
	ZF Electronics	10-12	Stable	Stable
Fans	ADDA	10-12	Stable	Stable
	Delta Products	28-30	Increasing	Stable
	Etri	12-14	Stable	Stable
	Nidec	10-12	Stable	Stable
	NMB	8-10	Stable	Stable
	Nuventix/Aavid	12-14	Stable	Stable
	Ohmite	10-12	Stable	Stable
	Orion	8-10	Stable	Stable
	Qualtek	8-10	Stable	Stable
Sunon	16-18	Stable	Stable	
Heatsinks	Aavid Thermalloy	12-14	Stable	Stable
	CUI	10-12	Stable	Stable
	Wakefield	10-12	Stable	Stable
Hardware	Bivar	6-8	Stable	Stable
	Keystone	4-6	Stable	Increasing
	Richco	6-8	Stable	Increasing
Timing	Abrakon	12-24	Stable	Increasing
	Citizen	14-24	Stable	Stable
	CTS	8-10	Stable	Stable
	Diodes/Pericom/Saronix	8-10	Stable	Stable
	ECS	10-14	Stable	Stable
	Epson	10-12	Stable	Stable
	Fox	10-12	Stable	Increasing
	Kyocera/AVX	12-14	Stable	Stable
	Murata	8-10	Stable	Increasing
	Raltron	14-20	Increasing	Stable



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
8 Bit MCU	Cypress	14-16	Stable	Stable
	Microchip	10-12	Stable	Stable
	NXP	14-16	Stable	Increasing
	Renesas	24-26	Stable	Stable
	STMicroelectronics	20-25	Decreasing	Stable
	Zilog	14-18	Stable	Stable
32 Bit MCU	Cypress	20-24	Stable	Stable
	Microchip	10-12	Stable	Stable
	NXP	13-16	Stable	Stable
	Renesas Synergy	14-16	Stable	Selective Market Adjustments
	Renesas	24-26	Stable	Stable
	STMicroelectronics	12	Decreasing	Stable
	F0, F1, F3	10	Decreasing	Stable
	F2, F4, F7, H7	8-10	Decreasing	Stable
	L4	8-10	Decreasing	Stable
	L0, L1	8-11	Decreasing	Stable
LCD's	AZ	16-18	Stable	Stable
	NLT	20-24	Stable	Increasing
	Sharp	20-24	Stable	Stable
	Tianma	20-24	Stable	Stable
	Wisechip	14-16	Stable	Stable



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
FPGA	Cypress	6-8	Stable	Stable
	Lattice	8-10	Stable	Increasing
	Microsemi	12-16	Stable	Stable
PHY / Ethernet	Microsemi	10-16	Stable	Increasing
	Microchip	18	Stable	Increasing
USB	Cypress	14-16	Increasing	Increasing
	Microchip	12-16	Stable	Increasing
Automotive	Cypress	20-24	Stable	Stable
	Infineon	32	Stable	Stable
	NXP	12-18	Stable	Stable
	STMicroelectronics	50	Stable	Stable
	Renesas	30	Stable	Stable
32-Bit MPU	Microchip	18	Stable	Stable
	NXP	16	Stable	Stable
	STMicroelectronics	40	Stable	Stable
	Renesas	24	Stable	Stable
Fibre Optic Transceivers	Source Photonics	8-10	Increasing	Stable
	Lumentum	8-11	Increasing	Stable
	Formrica	8-12	Increasing	Stable
Network Processors	NXP	8-12	Stable	Stable
SOM	KaRo	8-10	Stable	Stable
	Technexion	6-8	Stable	Stable
	iWave	16	Stable	Stable
	Compulab	16	Stable	Stable



INTERCONNECT

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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Automotive Connectors	TE Connectivity	26-40	Extended	Stable
Circular Connectors	Amphenol SINE	12	Stable	Stable
	TE Connectivity (Deutsch)	40	Stable	Stable
Relays	TE Connectivity	52+	Extended	Stable
D-Sub Connectors	Adam Tech	10-12	Stable	Stable
	Amphenol Commercial	6-8	Stable	Stable
	Amphenol FCI	8-10	Stable	Stable
	Norcomp	8-10	Stable	Stable
	TE Connectivity	8-10	Stable	Stable
Data & Telecom	Amphenol Commercial	6-8	Stable	Stable
	Amphenol FCI	8-10	Stable	Stable
	Assmann	14-16	Stable	Stable
	Halo Electronics	16-18	Stable	Stable
	TE Connectivity	8-10	Stable	Stable
PCB Connectors	Adam Tech	10-12	Stable	Stable
	Amphenol FCI	8-10	Stable	Stable
	Assmann	14-16	Stable	Stable
	EDAC	10-14	Stable	Stable
	Harting	8-10	Stable	Stable
	Hirose Electric	8-12	Stable	Stable
	JST	16-26	Decreasing	Stable
	Major League	6-8	Stable	Stable
	Mill-Max	4-6	Stable	Stable
	Oupiin	8-10	Stable	Stable
	Sullins	6-8	Stable	Stable
TE Connectivity	8-10	Stable	Stable	



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
RF Connectors	Bomar	8-10	Stable	Stable
	TE Connectivity	12-14	Stable	Stable
IC Sockets	Assmann	14-16	Stable	Stable
	Mill-Max	4-6	Stable	Stable
	TE Connectivity	6-8	Stable	Stable
Terminal Blocks & Crimps	Altech	6-8	Stable	Stable
	Major League	6-8	Stable	Stable
	Metz Connect	8-10	Stable	Stable
	TE Connectivity	14-16	Stable	Stable
	WAGO	8-10	Stable	Stable
	WECO	8-10	Stable	Stable
	Wieland	6-8	Stable	Stable
Lighting Connectors	AVX	8-10	Stable	Stable
	TE Connectivity	8-10	Stable	Stable
	WAGO	8-10	Stable	Stable
FFC/FPC	Amphenol FCI	8-10	Stable	Stable
	Hirose Electric	8-12	Stable	Stable
	Nicomatic	4-6	Stable	Stable

LIGHTING SOLUTIONS

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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Illumination High Power LEDs (White)	Lumileds	8-10	Stable	Stable
	Nichia	6-8	Stable	Stable
	Seoul Semiconductor	8-10	Stable	Stable
	Samsung	8-10	Stable	Stable
	LG Innotek	8-10	Stable	Stable
Illumination High Power LEDs (Colors)	Lumileds	8-10	Stable	Stable
	Nichia	8-10	Stable	Stable
Illumination Mid Power LEDs (White & Colors)	Lumileds	8-10	Stable	Stable
	Seoul Semi	6-8	Stable	Stable
	Samsung LED	6-8	Stable	Stable
	Nichia	6-8	Stable	Stable
	LG Innotek	8-10	Stable	Stable
Automotive LEDs (AEC-Q101 Certified)	Lumileds	14-16	Stretching	Increasing
	Excellence Opto Inc	6-8	Stable	Stable
	Everlight	8-10	Stable	Stable
	American Bright	8-10	Stable	Stable
UV LEDs	Seoul Viosys	6-8	Stable	Stable
	Lumileds	8-10	Stable	Stable
	LG Innotek	8-10	Stable	Stable
	Vishay	6-8	Stable	Stable
	Everlight	8-10	Stable	Stable
IR LEDs	Lumileds	8-10	Stable	Stable
	Vishay	8-10	Stable	Stable
	TT Electronics	6-8	Stable	Stable
	Everlight	8-10	Stable	Stable
	LiteON	6-8	Stable	Stable
	Rohm	6-8	Stable	Stable



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Indication LEDs	Lumileds	8-10	Stable	Stable
	Kingbright	5-7	Stable	Selective Market Adjustments
	LiteON	6-8	Stable	Stable
	Lumex	6-8	Stable	Increasing
	Dialight	5-7	Stable	Stable
	Stanley Electric	6-8	Stable	Stable
	American Bright	6-8	Stable	Stable
	Paralight	6-8	Stable	Stable
	Inolux	5-7	Stable	Stable
	Rohm	6-8	Stable	Increasing
Chip On Board (CoB)	Everlight	8-10	Stable	Stable
	Lumileds	8-10	Stable	Stable
	Seoul Semiconductor	6-8	Stable	Stable
	Samsung	6-8	Stable	Stable
	Nichia	6-8	Stable	Stable
Standard Light Engines (Level 2 Boards)	Bridgelux	6-8	Stable	Stable
	Philips	8-10	Stable	Stable
	OSRAM	8-10	Stable	Stable
	Seoul Semiconductor	10-12	Stable	Stable
	Samsung	10-12	Stable	Stable
	SimpleLED (MFR: RENA)	10-12	Increasing	Increasing
	SimpleLED (MFR: General Luminaire)	8-10	Stable	Increasing
Lumileds	10-12	Stable	Stable	



MEMORY

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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
PC (Commodity) DRAM	Alliance Memory	4-8	Stable	Stable
	Samsung	4-6	Stable	Selective Market Adjustments
	Kingston	4-6	Stable	Selective Market Adjustments
Mobile DRAM	Alliance Memory	10-14	Stable	Stable
Memory Modules	ADATA	4-6	Stable	Selective Market Adjustments
	Kingston	2-4	Stable	Selective Market Adjustments
	Centon	4-8	Stable	Stable
	Unigen	14-18	Stable	Stable
SRAM	Cypress	6-16	Stable	Stable
	Alliance Memory	6-10	Stable	Stable
	Renesas	18-20	Stable	Stable
NOR FLASH	Adesto	4-12	Stable	Stable
	Cypress	10-18	Decreasing	Selective Market Adjustments
	GigaDevice	6-12	Stable	Stable
	Macronix	6-12	Stable	Selective Market Adjustments
	Microchip	8-16	Stable	Stable
DATA FLASH	Adesto	8-12	Stable	Stable

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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
SLC NAND FLASH	Cypress	6-12	Stable	Selective Market Adjustments
	Macronix	6-12	Stable	Selective Market Adjustments
eMMC	Kingston	2-6	Stable	Selective Market Adjustments
	Greenliant	8-12	Stable	Stable
	Samsung	4-6	Stable	Selective Market Adjustments
	Panasonic	12-14	Stable	Stable
Memory Cards	Kingston	2-4	Stable	Selective Market Adjustments
	ADATA	4-6	Stable	Targeted Correction
	Panasonic	12-26	Stable	Stable
	Centon	6-8	Stable	Stable
	Unigen	14-18	Increasing	Stable
Solid State Drives (SSD)	Kingston	2-6	Stable	Stable
	ADATA	4-6	Stable	Stable
	Samsung	4-6	Stable	Selective Market Adjustments
	Greenliant	8-12	Stable	Stable
EEPROM	Microchip	6-14	Stable	Stable
	STMicroelectronics	4-16	Decreasing	Stable
	ON Semiconductor	4-12	Decreasing	Stable
EPROM	Microchip	6-12	Stable	Stable
MRAM	Everspin	8-14	Stable	Stable
FRAM & NVSRAM	Cypress	6-12	Stable	Stable



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Infrared Components	Optek	8-10	Stable	Stable
	American Bright	4-6	Stable	Stable
	Vishay	8-20*	Stable	Stable
LED Displays	American Bright	6-8	Stable	Stable
	Kingbright	8-10	Stable	Increasing
	Lite-On	8-10	Stable	Stable
	Stanley	12	Stable	Stable
	Lumex	12	Stable	Stable
LEDs	Visual Communications	12	Stable	Stable
	Dialight	10-16	Stable	Stable
	Everlight	8-10	Stable	Stable
	Kingbright	6-8	Increasing	Stable
	Lite-On	8-10	Stable	Stable
	Lumex	8-14	Stable	Stable
	Rohm Semiconductor	10-12	Stable	Stable
	Stanley	10-12	Stable	Stable
	Inolux	6-8	Stable	Stable
	American Bright	4-6	Stable	Stable
	Vishay	8-10	Stable	Stable
	Paralight	8	Stable	Stable



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Trimmers & Pots	BI Tech	8-20	Stable	Stable
	Piher	10-14	Stable	Stable
	Panasonic	14-17	Increasing	Stable
	Vishay	10-14	Stable	Stable
Electrolytic	Aishi	6-8	Stable	Stable
	NIC Components	16-25	Increasing	Increasing
	Nichicon	14-20	Decreasing	Increasing
	Surge	16-18	Stable	Stable
	Panasonic	14-18	Decreasing	Stable
	United Chemicon	16-18	Increasing	Stable
Capacitors - Film	EPCOS	16-20	Stable	Stable
	Illinois Capacitors	12-16	Stable	Stable
	Paktron	8-10	Stable	Increasing
	Surge	12-16	Stable	Stable
	Vishay	12-16	Stable	Increasing
	WIMA	12-16	Stable	Stable
Capacitors - Supercapacitors	Elna	20-30	Increasing	Stable
	Surge	14-16	Stable	Stable
	Vishay	14-16	Stable	Stable
	Bussman	14-24	Decreasing	Stable
	AVX	14-16	Stable	Stable

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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Capacitors - Tantalum	AVX	12-14	Decreasing	Stable
	Vishay	11-13	Decreasing	Stable
Capacitors - Polymer Tantalum	AVX	14-20	Stable	Stable
	Panasonic	12-16	Stable	Stable
	Vishay	12-14	Stable	Stable
Filters	EPCOS	20-30	Stable	Stable
	Murata	12-26	Increasing	Increasing
	NIC Components	8-12	Stable	Increasing
	TDK	12-26	Increasing	Increasing
Inductors	Cooper Bussmann	14-16	Stable	Stable
	Delevan	25+	Increasing	Stable
	Halo Transformers	12-14	Stable	Stable
	Murata	8-10	Stable	Increasing
	NIC Components	14-18	Stable	Stable
	Panasonic	35+	Increasing	Stable
	Würth	16-20	Increasing	Increasing
	Sumida Electronics	16-18	Stable	Stable
	TDK	12-16	Stable	Increasing
	Vishay	36-60	Stable	Increasing



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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Fixed Resistors	IRC	20-30	Increasing	Increasing
	NIC Components	14	Decreasing	Selective Market Adjustments
	Rohm Semiconductor	Allocation		
	Samsung	24+	Increasing	Increasing
	Stackpole	16	Decreasing	Stable
	Susumu	10-37	Stable	Stable
	Vishay	Allocation	Decreasing	Stable
	Panasonic	17-22	Decreasing	Stable
Resistor Networks	Yageo	14-16	Decreasing	Selective Market Adjustments
	BI Tech	16	Increasing	Increasing
	CTS	26	Increasing	Increasing
	Rohm Semiconductor	Allocation		
	Vishay	30+	Increasing	Stable
	Panasonic	17	Stable	Increasing
Surface Mount General Capacitors – Ceramic (Less than 1uf)	Yageo	14-16	Decreasing	Stable
	AVX	22+	Decreasing	Selective Market Adjustments
	Murata	30+	Decreasing	Stable
	Samsung	16+	Decreasing	Stable
	TDK	40+	Decreasing	Stable
	NIC Components	16+	Decreasing	Selective Market Adjustments
	Taiyo Yuden	16	Decreasing	Stable
	Yageo	16	Decreasing	Stable
	Walsin	16	Decreasing	Stable
Vishay	20+	Stable	Stable	

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Technology	Manufacturer	Lead Time		Pricing
		Current	Forward Looking Trend	Current
Surface Mount General Capacitors – Ceramic (greater than 1uf) ***Excludes 1206+ sizes	AVX	30+	Stable	Stable
	Murata	22-38+	Stable	Stable
	Samsung	30+	Stable	Stable
	TDK	40+	Stable	Stable
	NIC Components	24+	Stable	Stable
	Taiyo Yuden	18+	Stable	Stable
	Yageo	16	Stable	Stable
	Walsin	40+	Stable	Stable
Leaded Capacitors - Ceramic	AVX	18-20	Stable	Stable
	Murata	18-20	Stable	Stable
	Vishay	12-16	Stable	Stable
	NIC Components	14-18	Increasing	Increasing
	TDK	14-20	Increasing	Increasing
Specialty Capacitors	AVX	18-22	Stable	Stable
	Murata	16-20	Increasing	Increasing
	Vishay	10-12	Increasing	Increasing

