

ELECTRONIC DESIGN TO DELIVERY INDEX

FEBRUARY 2024

Delivering insights for millions of electronic components and millions of daily user interactions across design, supply chain, and manufacturing.



Supply: Overview

FEBRUARY 2024

- The Industry Supply Index reported a decline of 3 points (-1.8%), totaling 161 points this month. This is the third month of decline since November 2023.
- The Integrated Circuits Supply Index experienced the most substantial decline, decreasing 8 points (-4%) to 193 points.
- The Electromechanical Supply Index has been steadily falling over the last 5 months, from an October 2023 high of 142 points (-7%) to its current value of 132 points.
- The Sensors Supply Index had the largest gains, with 8 points (5.4%), totaling 155 points.

FEBRUARY 2024

INDUSTRY INDEX

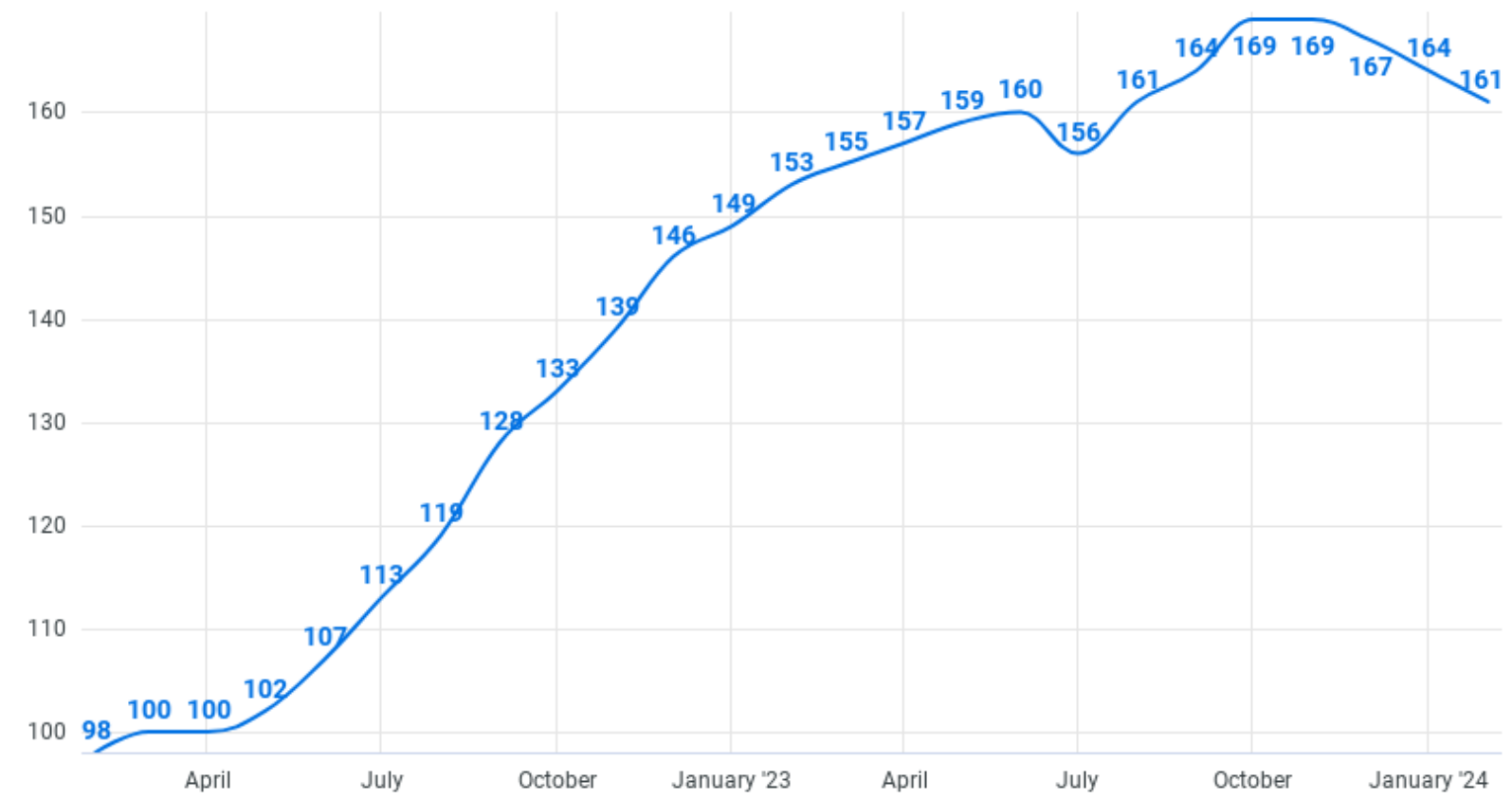
161

CHANGE
MONTH OVER MONTH

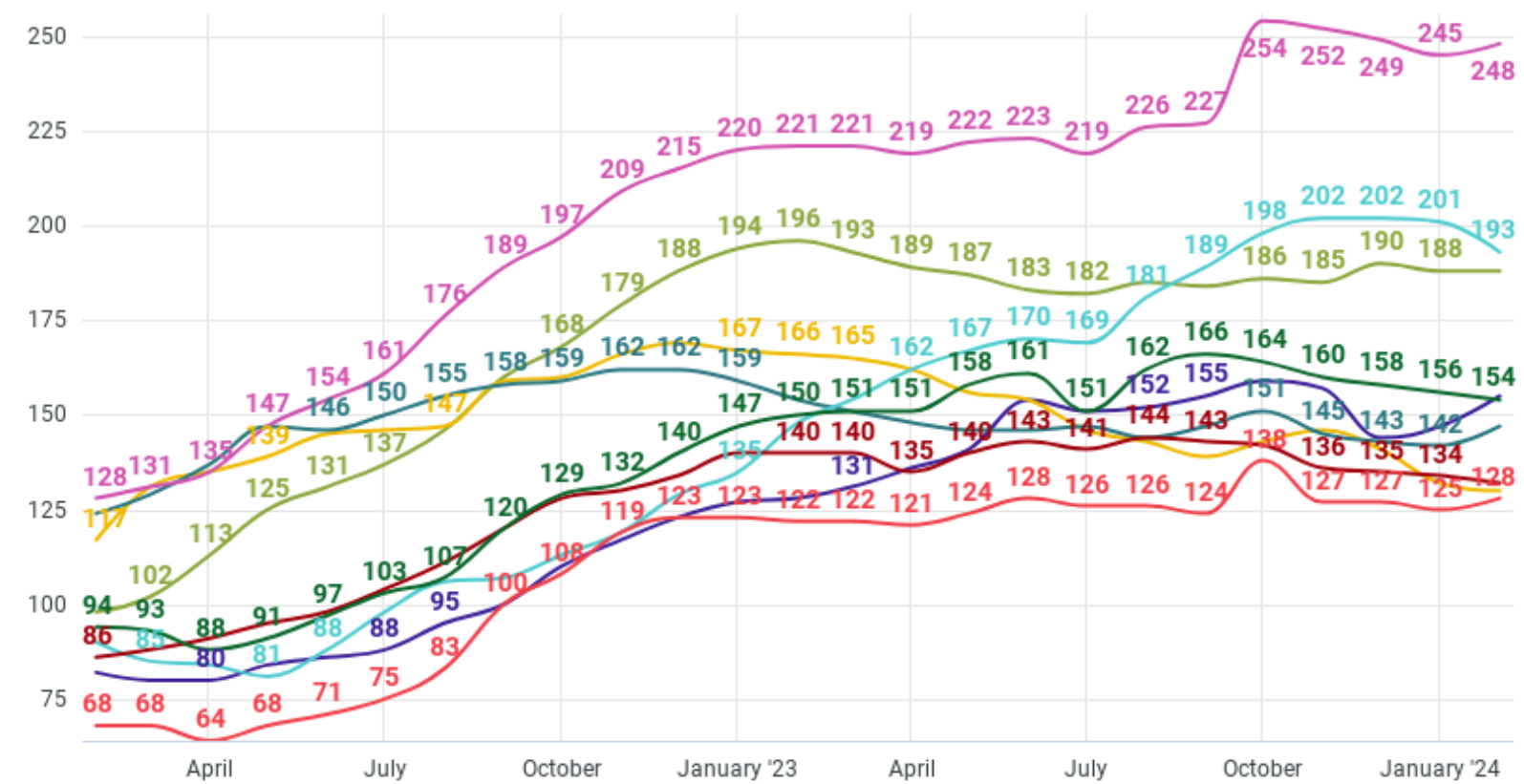
▼ **3**

CATEGORY	INDEX	CHANGE	MONTH OVER MONTH
Circuit Protection	248	▲	3
Connectors	154	▼	2
Discrete Semiconductors	128	▲	3
Electromechanical	132	▼	2
Integrated Circuits	193	▼	8
Optoelectronics	147	▲	5
Passive Components	130	▼	2
Power Products	188	▶	Flat
Sensors	155	▲	8

INDUSTRY SUPPLY INDEX



SUPPLY INDEX BY CATEGORY



Supply: Integrated Circuits

FEBRUARY 2024

- The Supply Index for Integrated Circuits dropped 8 point (-4%) to 193 points in February 2024. This is the second consecutive month of decline since December 2023.
- RF Receivers, Transceivers Supply Index declined to 261 points (-1.5%) from the previous month. This is the fourth month of a decline since it peaked at 307 points in October 2023 (-15%).
- Microcontrollers experienced gain in the demand index, with an increase of 3 points. This signifies the second consecutive month of increase since it reached 124 points (6.5%) in December 2023.

FEBRUARY 2024

ALL INTEGRATED CIRCUITS

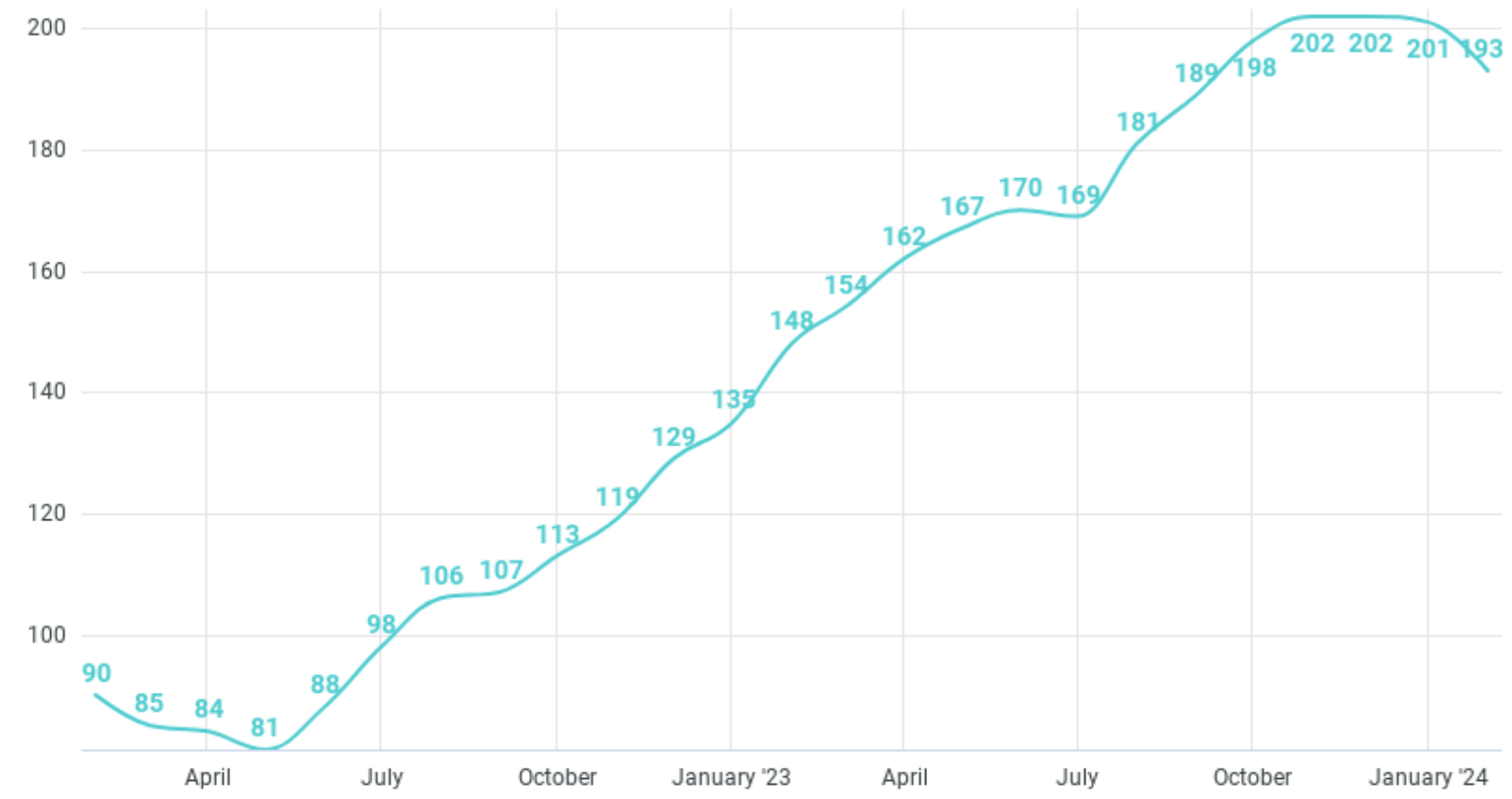
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CHANGE
MONTH OVER MONTH

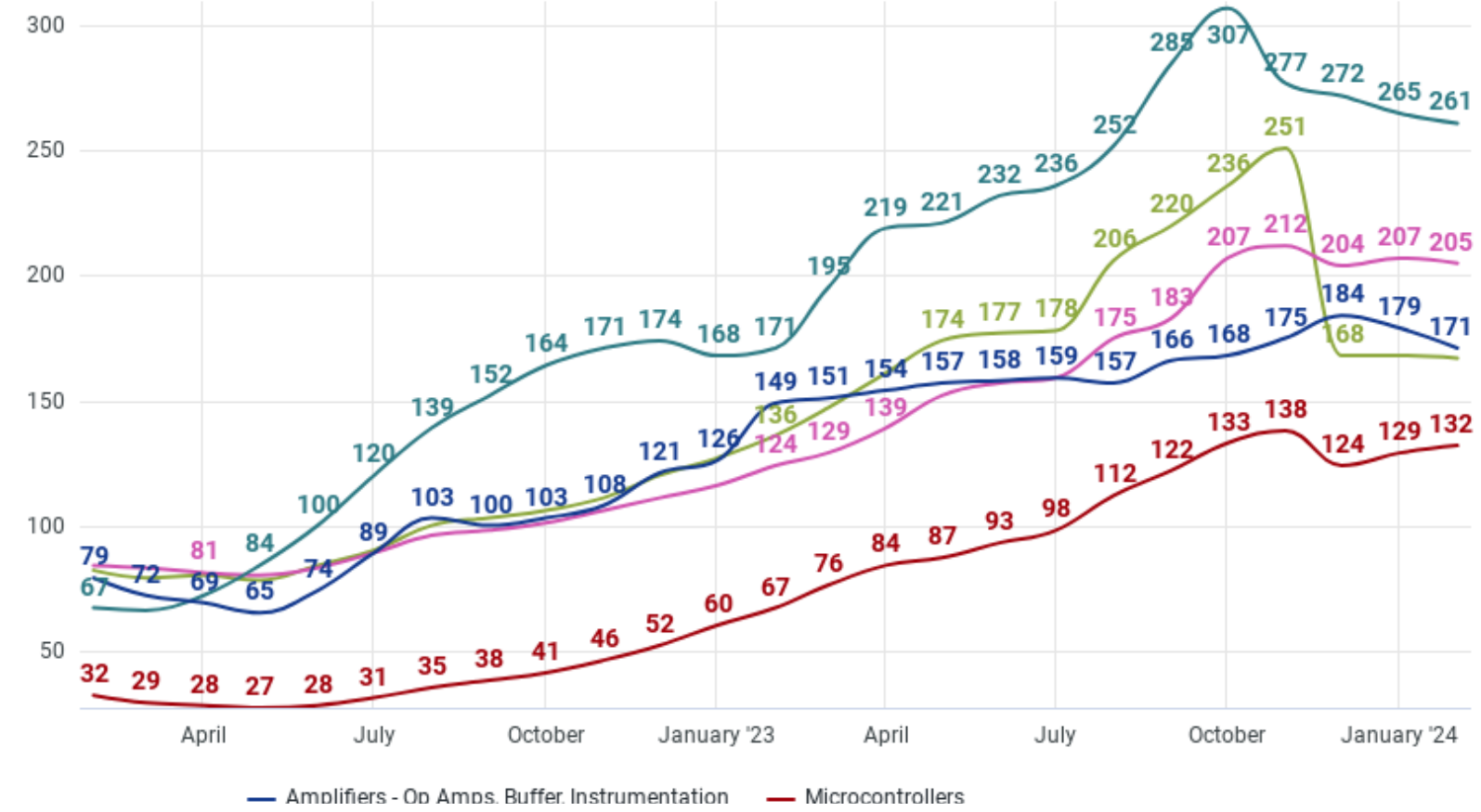
▼ 8

CATEGORY	INDEX	CHANGE	MONTH OVER MONTH
Amplifiers - Op Amps, Buffer, Instrumentation	171	▼	8
Microcontrollers	132	▲	3
RF Receivers, Transceivers	261	▼	4
Voltage Regulators - Linear	205	▼	2
Voltage Regulators - Switching	167	▼	1

ALL INTEGRATED CIRCUITS SUPPLY INDEX



SUPPLY INDEX BY SUBCATEGORY



Supply: Passive Components

FEBRUARY 2024

- The Supply Index for Passive Components reduced this month by 2 points (-1.5%), resulting in an index value of 130 points. This reflects a significant drop compared to the surge to 146 points (-11%) in November 2023.
- The Aluminum Electrolytic Capacitors Supply Index increased slightly to 162 points. This rise perpetuates a 26-month consecutive increasing trajectory from December 2021.
- The Fixed Inductors Supply Index had the largest drop by 6 points to 148 points (-3.9%) from the previous month.

FEBRUARY 2024

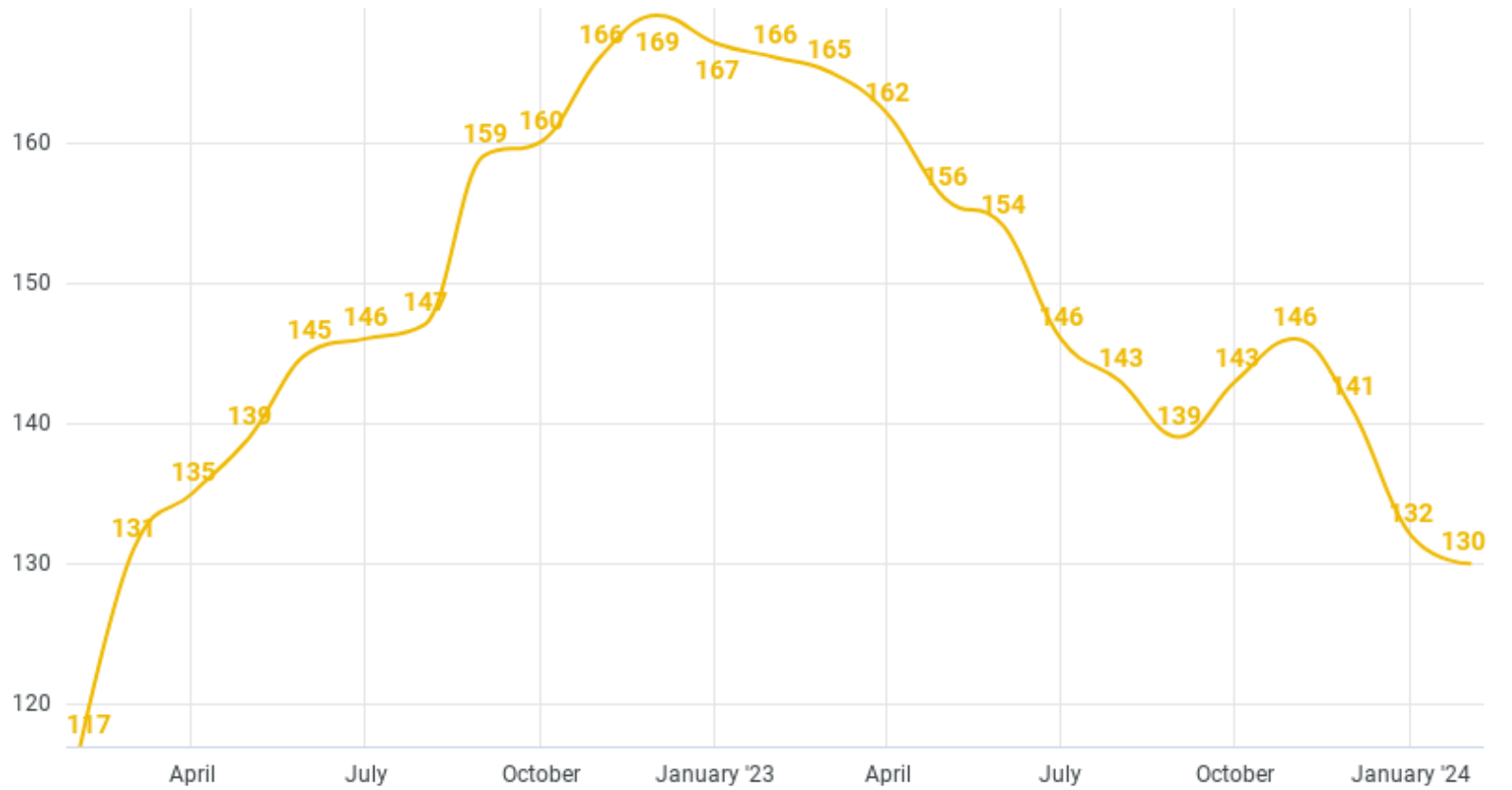
ALL PASSIVE COMPONENTS

CHANGE
MONTH OVER MONTH

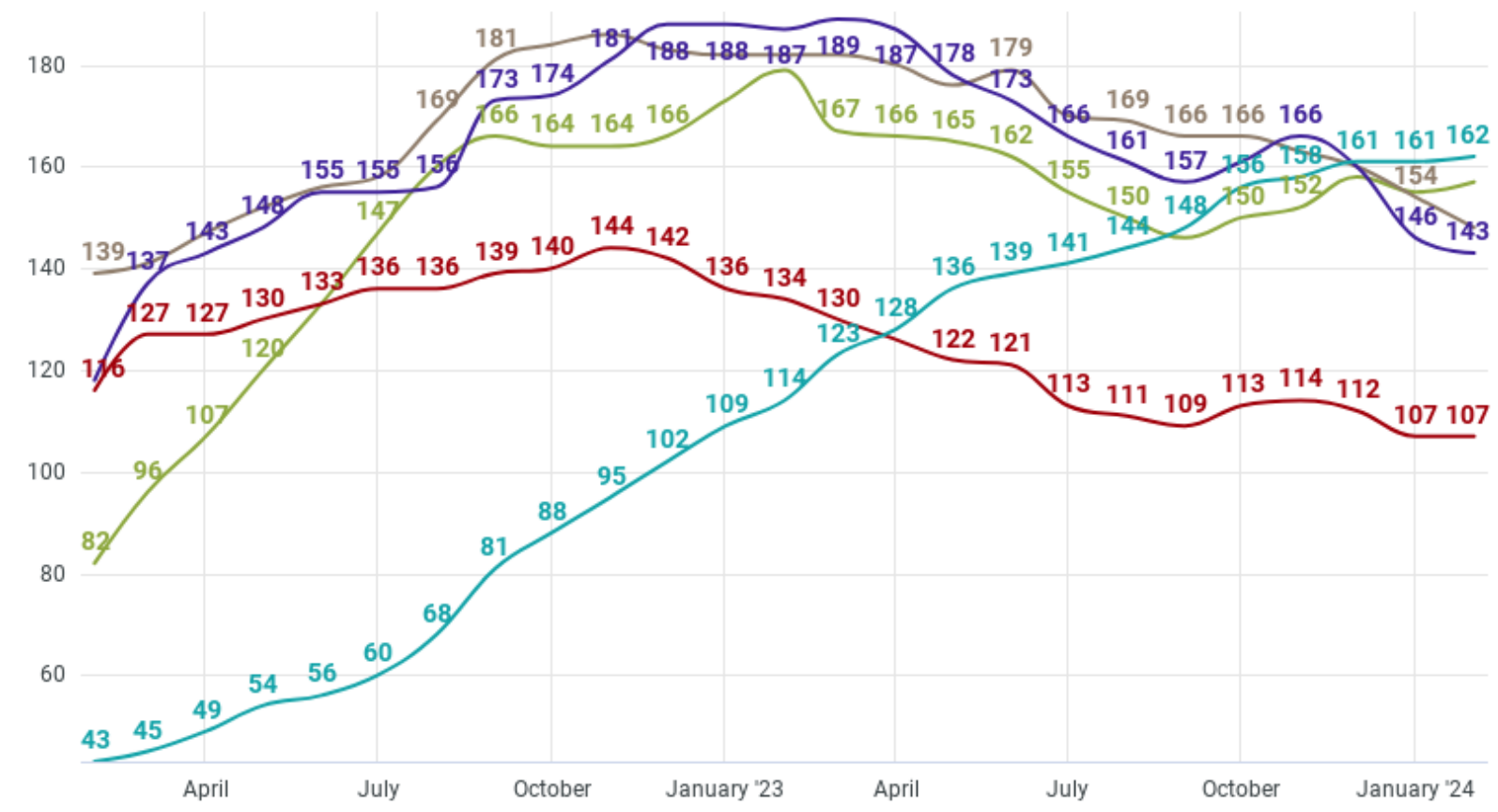
130 ▼ **2**

CATEGORY	INDEX	CHANGE	MONTH OVER MONTH
Aluminum Electrolytic Capacitors	162	▲	1
Ceramic Capacitors	107	▶	Flat
Chip SMD Resistors	143	▼	3
Fixed Inductors	148	▼	6
Tantalum Capacitors	157	▲	2

ALL PASSIVE COMPONENTS SUPPLY INDEX



SUPPLY INDEX BY SUBCATEGORY



Supply: Discrete Semiconductors

FEBRUARY 2024

- The Discrete Semiconductor Supply Index increased by 3 points (2.4%) this month, resulting in an index score of 128 points.
- Schottky Diodes Supply Index had the highest gain, the supply index increased by 18 points (14.6%), reaching 141 points.
- MOSFETs Supply Index increased by 8 points (4.8%), reaching 174 points. Since April 2022, the supply index for MOSFETs has increased by 125 points (255.1%).
- The Rectifier Diodes Supply Index remained flat at 128 points. This is the second consecutive month of no change.

FEBRUARY 2024

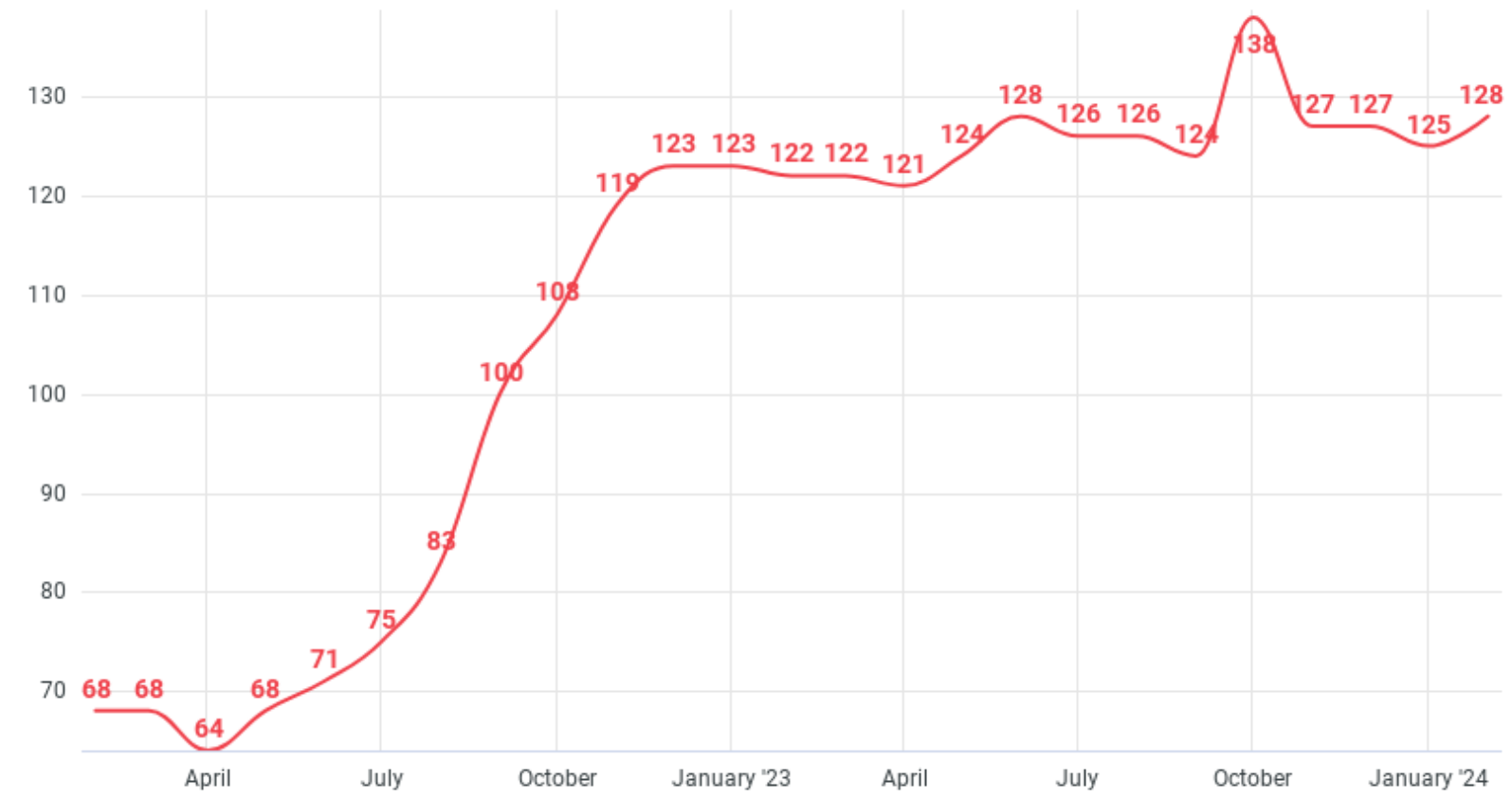
ALL DISCRETE SEMICONDUCTORS

128

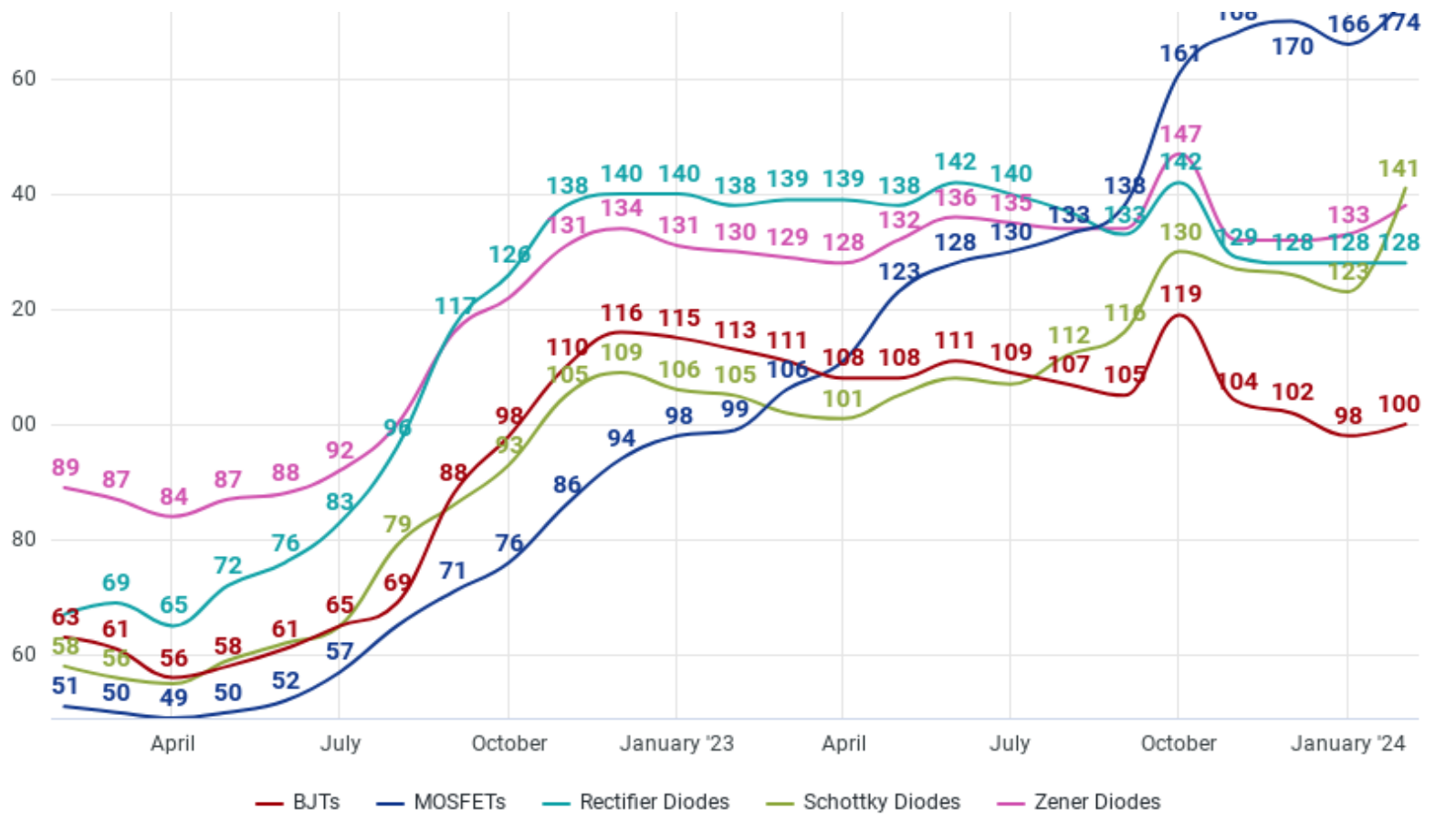
CHANGE MONTH OVER MONTH ▲ 3

CATEGORY	INDEX	CHANGE MONTH OVER MONTH
BJTs	100	▲ 2
MOSFETs	174	▲ 8
Rectifier Diodes	128	▶ Flat
Schottky Diodes	141	▲ 18
Zener Diodes	138	▲ 5

ALL DISCRETE SEMICONDUCTORS SUPPLY INDEX



SUPPLY INDEX BY SUBCATEGORY



Demand: Overview

FEBRUARY 2024

- The Industry Demand Index had a net rise of 10 points, representing a growth of 6.8%, resulting in a cumulative total of 157 points. Since October 2023, demand has increased from 131 points (19.9%); this marks the fourth consecutive month of demand growth.
- All demand index categories experienced an increase for the second consecutive month.
- Double-digit increases were seen in the demand index value for Circuit Protection (12 points), Discrete Semiconductors (13 points), and Passive Components (12 points).
- Since April 2023, when it hit its lowest point of 98 points, the demand index for Connectors witnessed the largest growth, reaching 162 points (65.3%).

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INDUSTRY INDEX

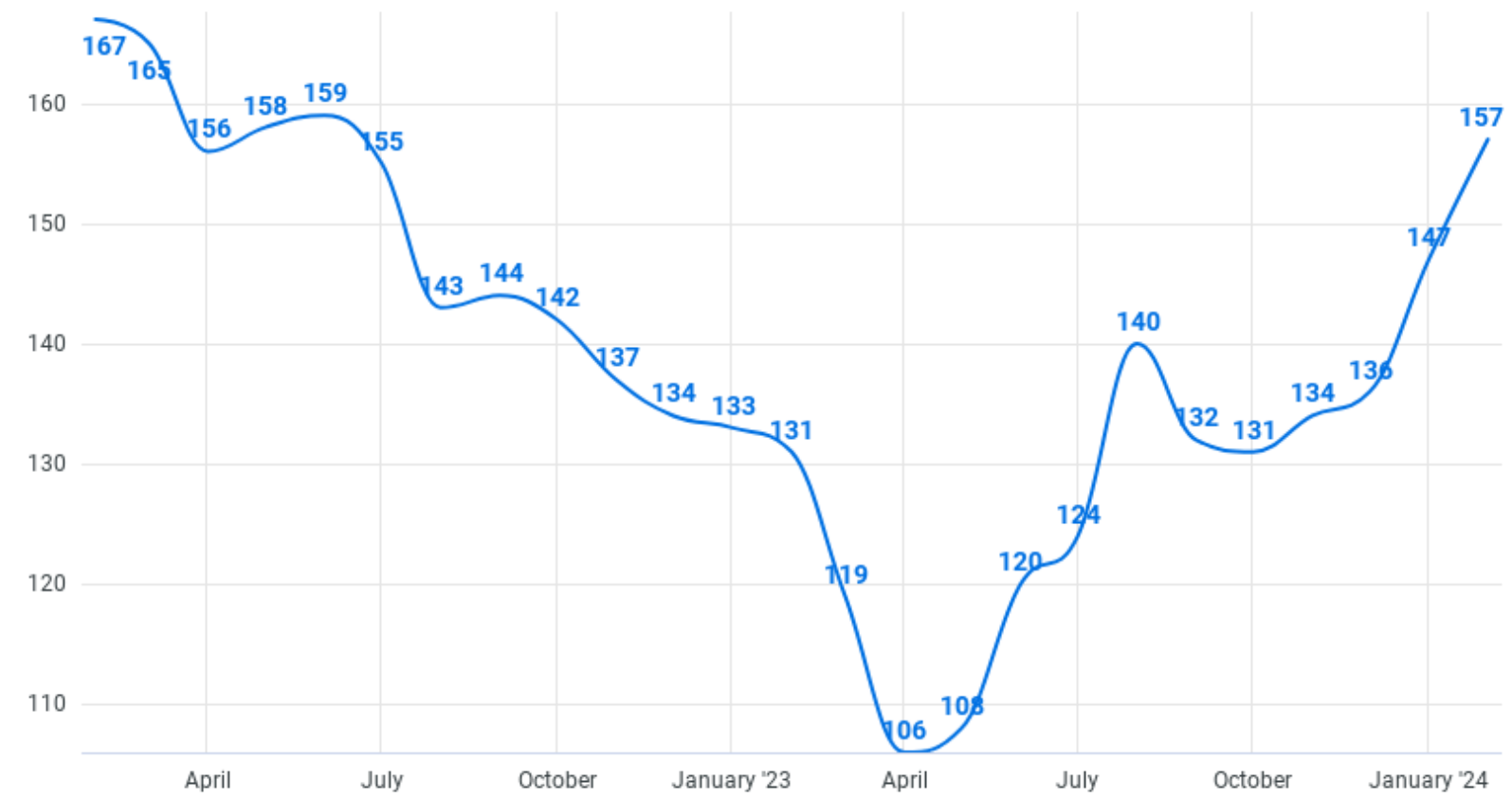
157

CHANGE
MONTH OVER MONTH

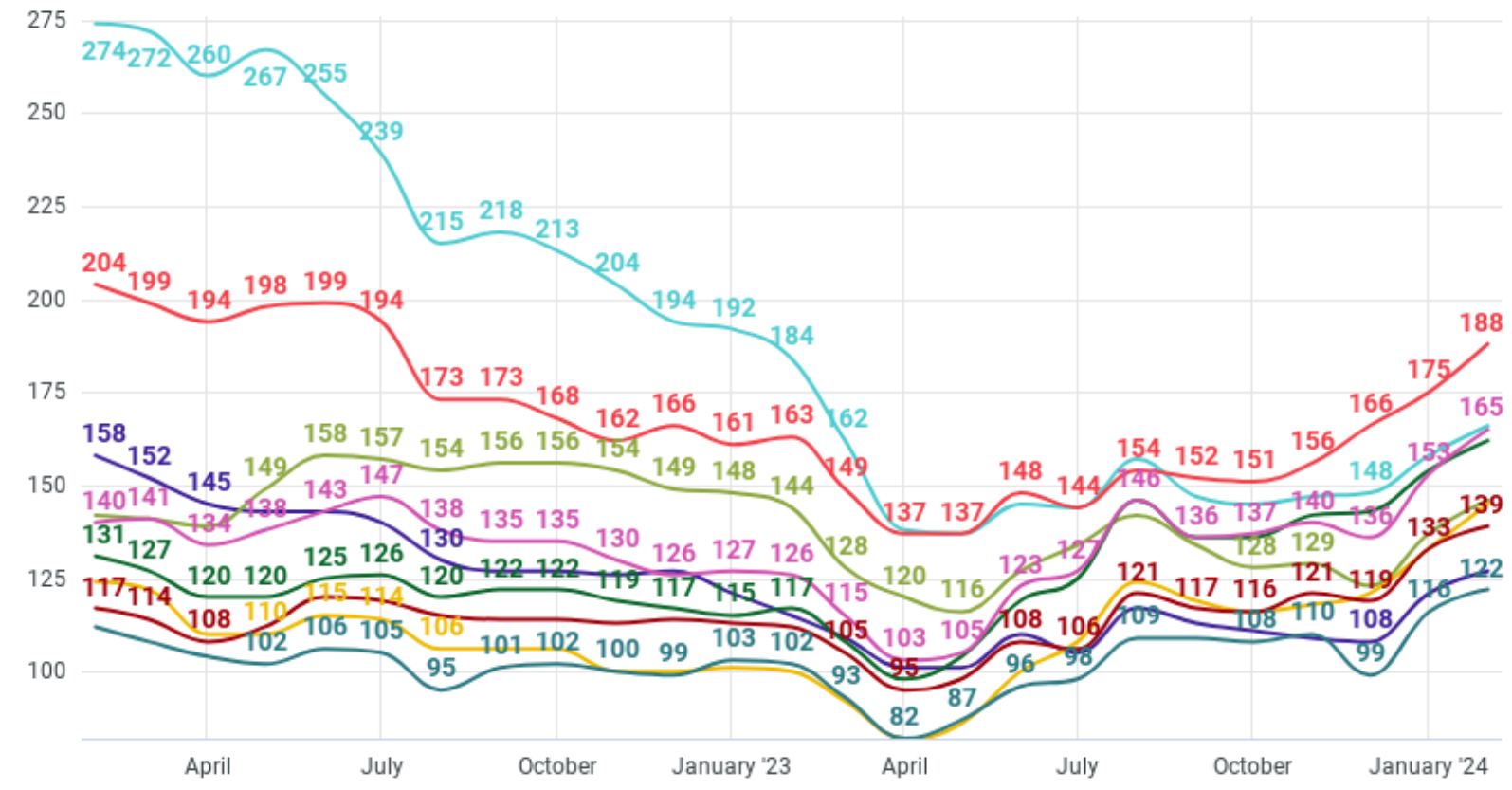
▲ 10

CATEGORY	INDEX	CHANGE	MONTH OVER MONTH
Circuit Protection	165	▲	12
Connectors	162	▲	8
Discrete Semiconductors	188	▲	13
Electromechanical	139	▲	6
Integrated Circuits	166	▲	8
Optoelectronics	122	▲	6
Passive Components	145	▲	12
Power Products	146	▲	9
Sensors	127	▲	6

INDUSTRY DEMAND INDEX



DEMAND INDEX BY CATEGORY



Demand: Integrated Circuits

FEBRUARY 2024

- The Demand Index for Integrated Circuits rose by 8 points in February, totaling 166 points (5%). The category has been increasing steadily over the last four months.
- Voltage Regulators - Linear saw the most significant increase in the demand index, with an increase of 15 points (9.6%). This is the 2nd month of incline since December 2023 low of 132 points.
- Additional demand index value increases were seen in Amplifiers - Op Amps, Buffer, Instrumentation (5 points), Microcontrollers (2 points), and Voltage Regulators - Switching (5 points).

FEBRUARY 2024

ALL INTEGRATED CIRCUITS

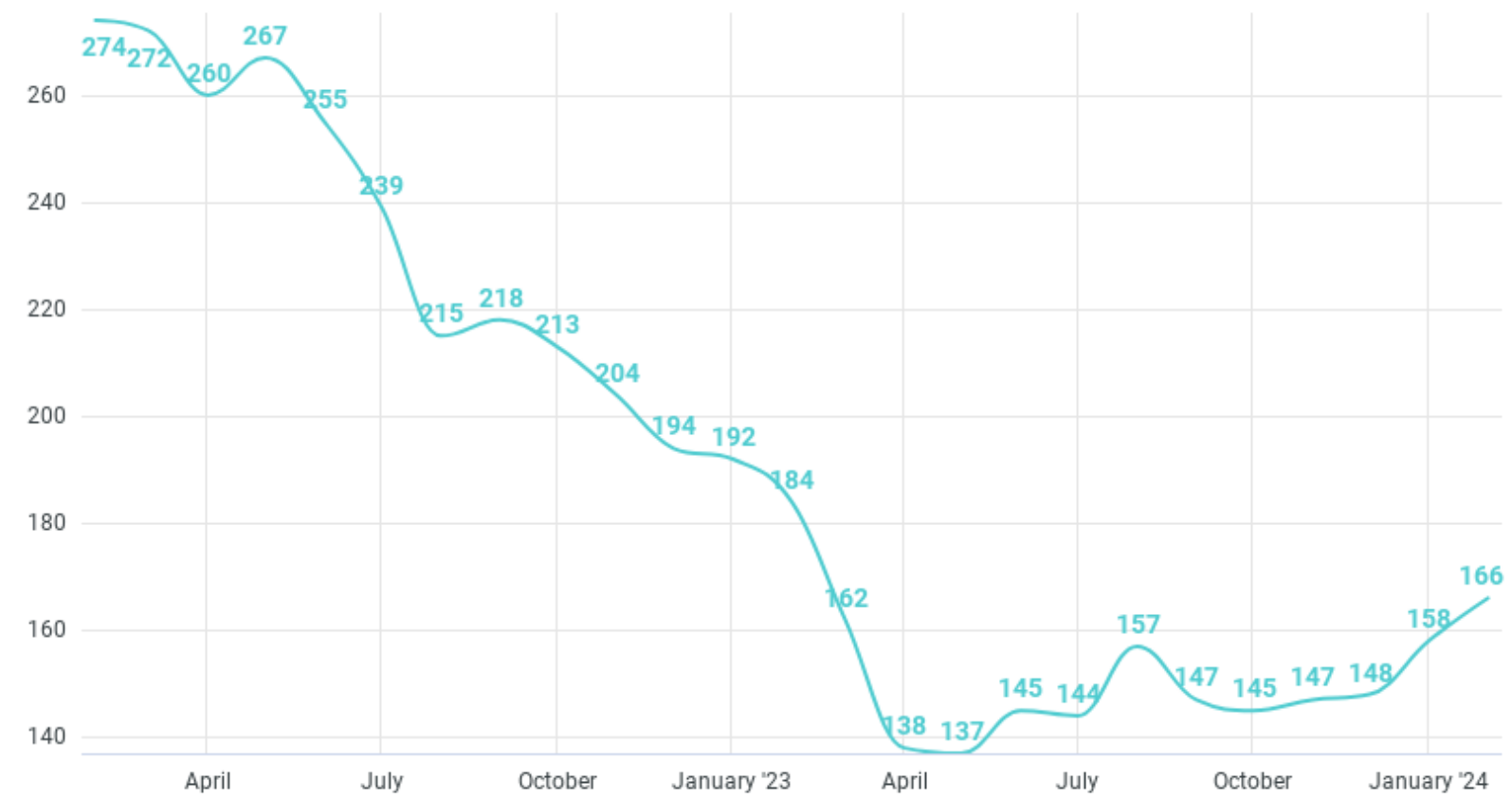
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CHANGE
MONTH OVER MONTH

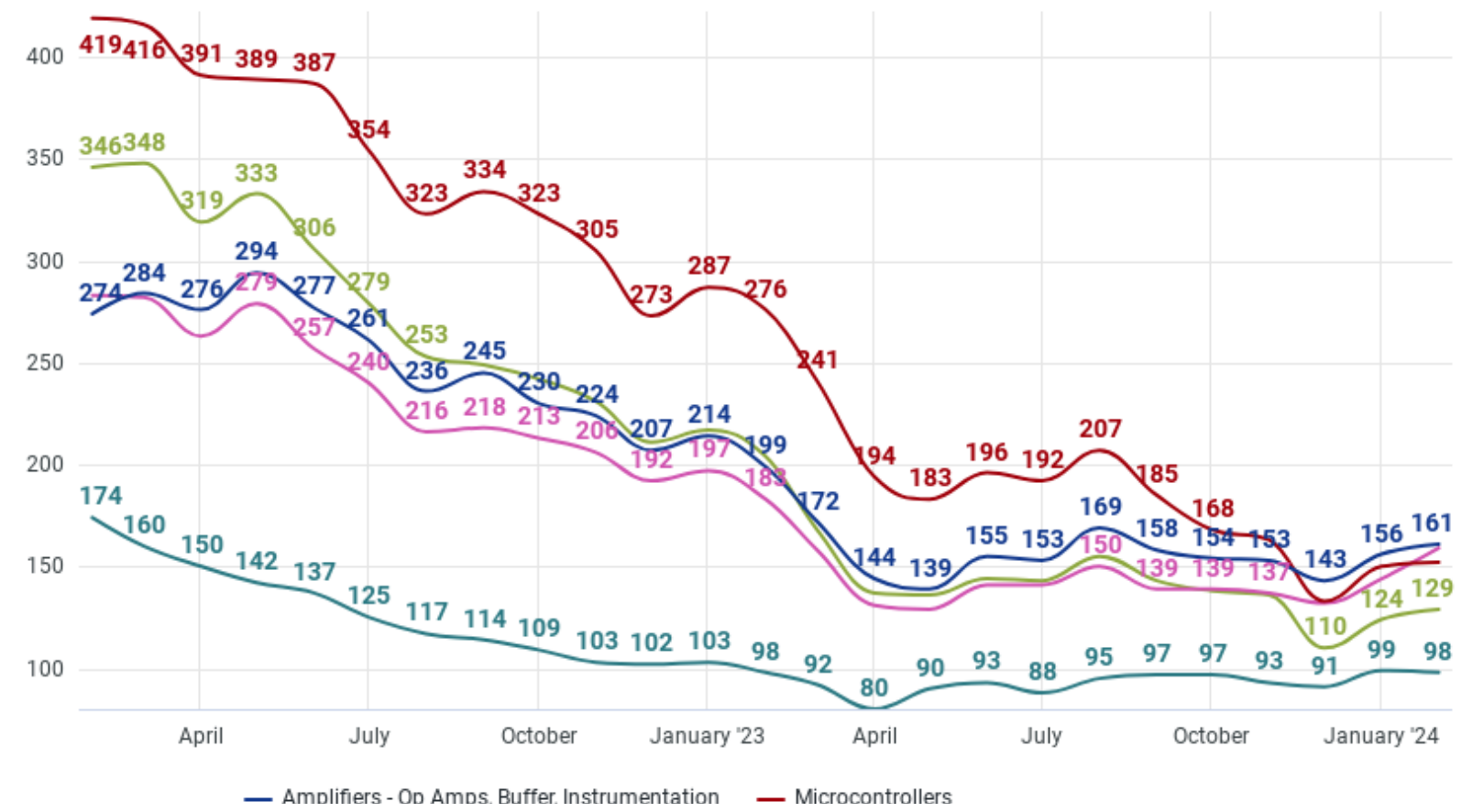
▲ 8

CATEGORY	INDEX	CHANGE	MONTH OVER MONTH
Amplifiers - Op Amps, Buffer, Instrumentation	161	▲	5
Microcontrollers	152	▲	2
RF Receivers, Transceivers	98	▼	1
Voltage Regulators - Linear	159	▲	15
Voltage Regulators - Switching	129	▲	5

ALL INTEGRATED CIRCUITS DEMAND INDEX



DEMAND INDEX BY SUBCATEGORY



Demand: Passive Components

FEBRUARY 2024

- The Demand Index for Passive Components increased 12 points in February, totaling 145 points. This is the fourth month in a row that demand has increased since October 2023.
- The highest rise in demand index recorded in Chip SMD Resistors, amounting to 17 points (11.4%), bringing the total to 166 points, and reaching its highest recorded value since January 2021.
- Aluminum Electrolytic Capacitors, Ceramic Capacitors, Fixed Inductors, and Tantalum Capacitors have continued to see demand signal levels increase since November 2023.

FEBRUARY 2024

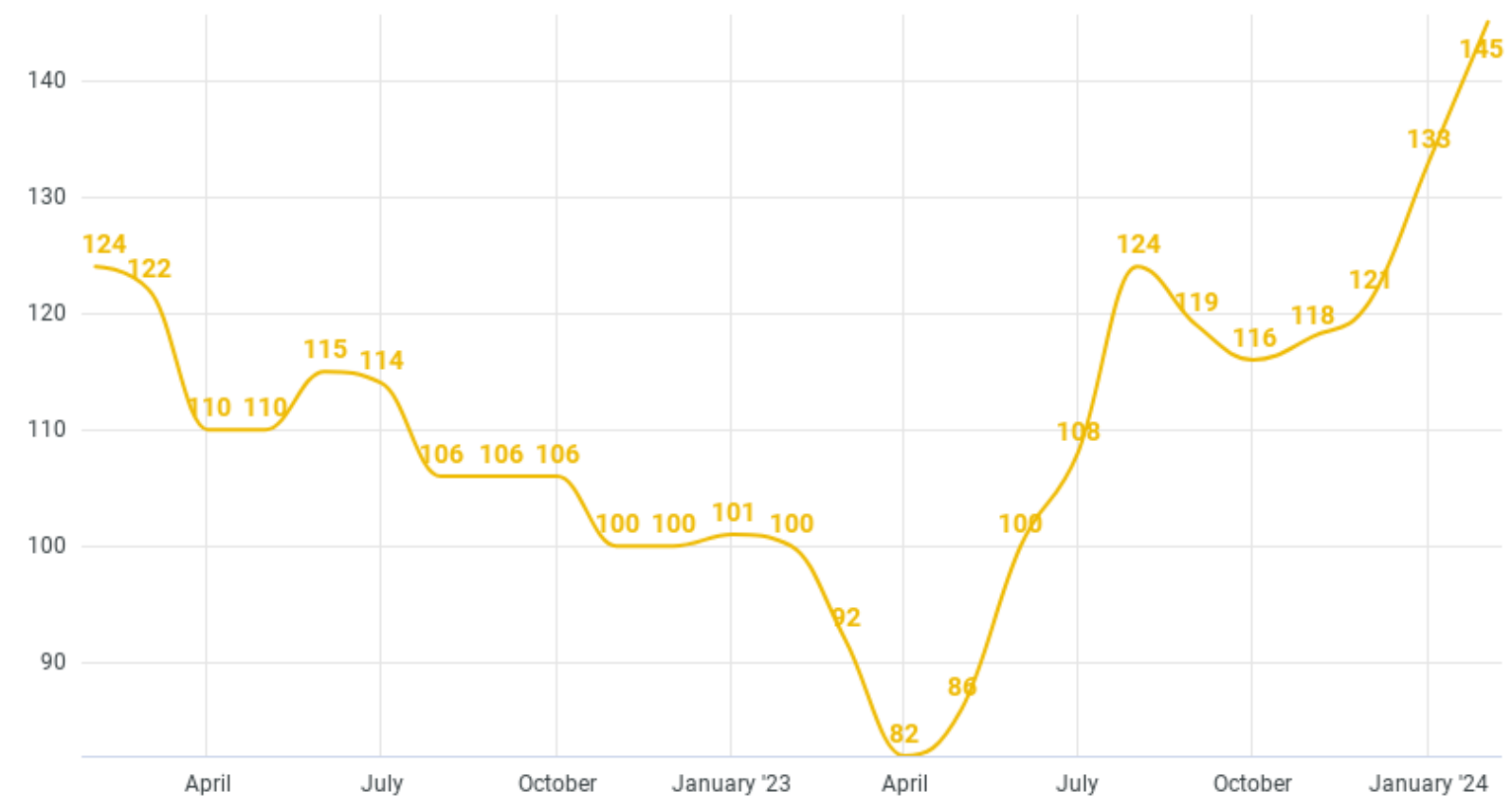
ALL PASSIVE COMPONENTS

CHANGE
MONTH OVER MONTH

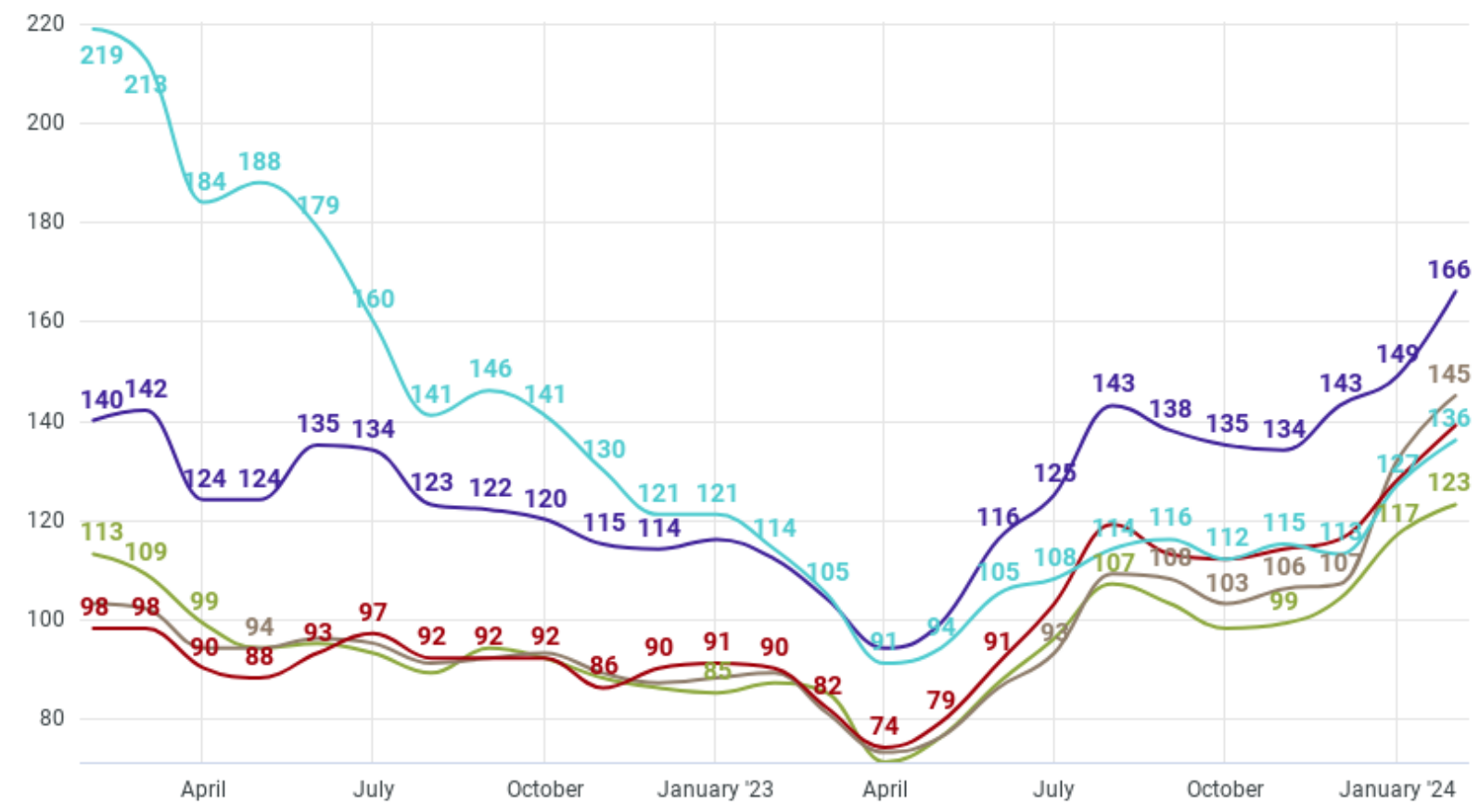
145 ▲ **12**

CATEGORY	INDEX	CHANGE	MONTH OVER MONTH
Aluminum Electrolytic Capacitors	136	▲	9
Ceramic Capacitors	139	▲	11
Chip SMD Resistors	166	▲	17
Fixed Inductors	145	▲	13
Tantalum Capacitors	123	▲	6

ALL PASSIVE COMPONENTS DEMAND INDEX



DEMAND INDEX BY SUBCATEGORY



Demand: Discrete Semiconductors

FEBRUARY 2024

- The Discrete Semiconductor Industry Demand Index increased by 13 points (7.4%) in February 2024. This is the fourth consecutive month of a reported incline since October 2023.
- Rectifier Diodes saw the most significant increase of all demand subcategories, increasing by 28.9% (43 points). The demand for Rectifier Diodes has increased by 78 points since May 2023.
- The only decrease was seen in the Schottky Diodes Demand Index of 7 points (4.2%).

FEBRUARY 2024

ALL DISCRETE SEMICONDUCTORS

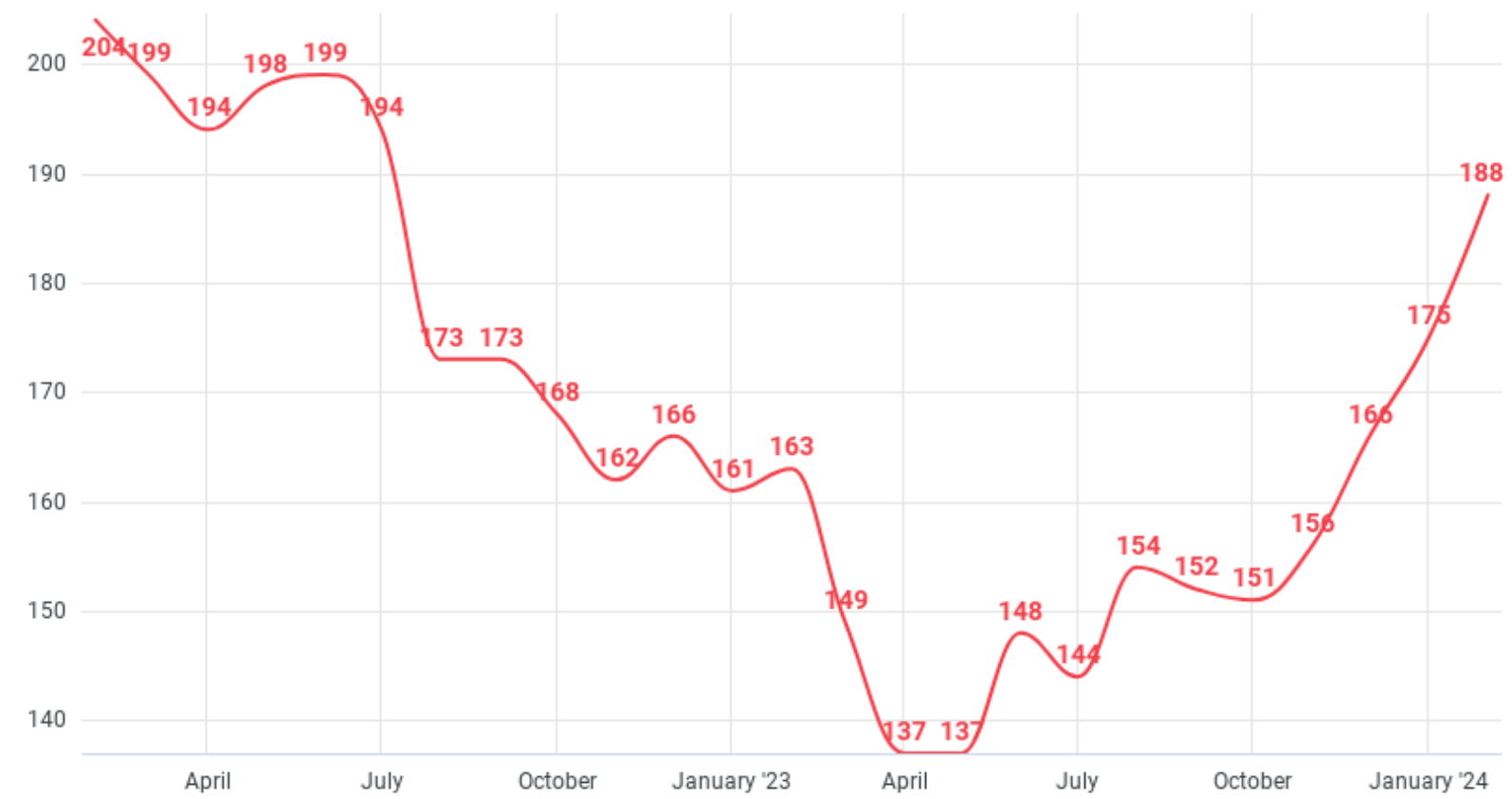
188

CHANGE MONTH OVER MONTH

▲ 13

CATEGORY	INDEX	CHANGE MONTH OVER MONTH
BJTs	154	▲ 13
MOSFETs	202	▲ 22
Rectifier Diodes	192	▲ 43
Schottky Diodes	170	▼ 7
Zener Diodes	166	▲ 5

ALL DISCRETE SEMICONDUCTORS DEMAND INDEX



DEMAND INDEX BY SUBCATEGORY

