Electronic Components Sector

Component Data Deposition: METI production statistics (electronic components, semiconductors) for August 2026: ABF substrates still rising

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METI published its August 2026 Current Survey of Production on October 15. August domestic production value (USD basis) was generally below seasonality for electronic components, and below seasonality for semiconductors, mainly discretes and MCUs. MLCC production value remained broadly flat, continuing to diverge from export value based on Ministry of Finance (MoF) trade statistics. However, we see no need to be overly concerned since trade data confirm continued growth. Sustained strong expansion in rigid module substrates (including ABF substrates, FC-BGA, and others) is positive for Ibiden. Our four top picks in the electronic component sector remain Ibiden, TDK, and Rohm, plus either Murata Manufacturing or Taiyo Yuden. We are watching MLCC trends in particular ahead of 2027 negotiations, with pricing strategies (price hike policies) likely to be decided in the latter half of October.

- **Our view**: Electronic component production value fell MoM across all products, affected by summer vacations, while it was also below seasonality. MLCC volume is in recovery in terms of the trendline, whereas value remains only flat (we continue to focus on trade statistics). Rigid module substrate production value is still on an uptrend. Within semiconductors, discretes and MCUs were below seasonality whereas logic and memory were broadly in line. Si-MOSFET production varies from month to month but is generally rising gently. Memory growth remains high YoY in both value terms and average unit prices.
- **Electronic components**: In August 2026, domestic production value for electronic components was passive components +2% YoY and –8% MoM, mechanical components +7% and –11%, electronic substrates +20% and –7%, and electronic circuit mounting boards +12% and –17%. Passive components were below seasonality, and the trendline also remained stagnant. MLCC production volume fell MoM while value was also below seasonality, remaining broadly unchanged. Aluminum electrolytic capacitors were below seasonality in August, but the trendline continues to recover gradually. Inductors remained about flat, with no notable changes. Resistors, crystal devices, and connectors were down MoM, but trendlines maintained a gradual recovery. Growth for electronic substrates continued, with particularly strong expansion still evident in rigid module substrates.
- **Semiconductors**: Domestic production value growth in August 2026 was discrete semiconductors –8% YoY and –8% MoM, MCUs –18% and –5%, logic ICs +22% and flat, and memory +332% and +6%. Discretes and MCUs were below seasonality in August, while logic and memory were broadly in line. Si-MOSFET production was below seasonality, with the trendline appearing to show gradual growth, though with monthly variation. Memory

See page 13 for analyst certification and important disclosures, including non-US analyst disclosures.

production value increased 332% YoY and 6% MoM overall, maintaining high growth. The average unit price for memory grew 316% YoY and 23% MoM in August 2026. Silicon transistor production jumped in August, while bipolar transistor production recovered sharply.

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Figure 1: Electronic Components: Summary of METI current production statistics (August 2026)

Production volume	mn units/m2	YoY	MoM
Passive components	129,145.5	4.7%	-14.8%
Registers	10,628.1	5.5%	-16.3%
Capacitors	105,176.9	5.8%	-15.2%
Aluminum electrolytic capacitors	800.6	9.1%	-11.8%
Ceramic capacitors	104,273.1	5.7%	-15.2%
Other capacitors	103.2	13.0%	-13.9%
Transformers	1.0	49.7%	-3.6%
Inductors	11,764.6	-3.0%	-10.3%
Functional components	1,575.0	-5.8%	-13.0%
Quartz crystals	331.8	9.4%	-12.0%
Filters	833.9	-10.7%	-19.3%
Multiple Components	409.4	-5.7%	2.5%
Mechanical Components	2,615.6	3.3%	-11.6%
Switches	687.2	22.4%	-8.8%
Connectors	1,895.4	-2.1%	-12.5%
PWB connectors	903.1	-5.8%	-10.7%
Other connectors	992.3	1.5%	-14.1%
Electronic circuit boards	647.6	-0.2%	-20.3%
Rigid PWB	492.9	-3.3%	-20.1%
Flexible PWB	113.0	14.1%	-22.3%
Module boards	41.7	3.7%	-16.6%
Rigid Module boards	20.1	2.4%	-15.9%
Electronic circuit jisso boards	1,153.3	7.8%	-20.7%
Printed wiring jisso boards	815.5	9.4%	-23.0%
Module jisso boards	337.8	4.0%	-14.3%

Production value	JPY mn	YoY	MoM
Passive components	130,779	9.4%	-9.6%
Registers	11,741	22.9%	0.9%
Capacitors	90,483	13.2%	-11.1%
Aluminum electrolytic capacitors	16,671	16.7%	-9.1%
Ceramic capacitors	67,872	12.1%	-11.1%
Other capacitors	5,940	16.2%	-16.9%
Transformers	887	69.3%	-17.3%
Inductors	8,609	5.8%	-9.7%
Functional components	19,059	-10.9%	-7.4%
Quartz crystals	5,500	12.9%	-5.4%
Filters	5,362	-17.6%	-19.1%
Multiple Components	8,197	-18.1%	0.6%
Mechanical Components	33,474	15.1%	-12.9%
Switches	4,900	39.2%	5.3%
Connectors	26,476	11.9%	-15.7%
PWB connectors	16,487	5.2%	-16.5%
Other connectors	9,989	25.1%	-14.4%
Electronic circuit boards	67,867	29.7%	-8.8%
Rigid PWB	35,555	16.5%	-10.9%
Flexible PWB	2,033	17.1%	-25.6%
Module boards	30,279	50.7%	-4.6%
Rigid Module boards	29,923	51.9%	-4.4%
Electronic circuit jisso boards	28,193	20.5%	-18.9%
Printed wiring jisso boards	13,829	12.2%	-22.9%
Module jisso boards	14,364	29.6%	-14.6%

Production value	$ mn	YoY	MoM
Passive components	822.8	1.5%	-7.7%
Registers	73.9	14.1%	3.0%
Capacitors	569.3	5.0%	-9.3%
Aluminum electrolytic capacitors	104.9	8.3%	-7.2%
Ceramic capacitors	427.0	4.0%	-9.2%
Other capacitors	37.4	7.8%	-15.1%
Transformers	5.6	57.1%	-15.5%
Inductors	54.2	-1.8%	-7.9%
Functional components	119.9	-17.3%	-5.5%
Quartz crystals	34.6	4.8%	-3.4%
Filters	33.7	-23.6%	-17.4%
Multiple Components	51.6	-24.0%	2.7%
Mechanical Components	210.6	6.8%	-11.1%
Switches	30.8	29.2%	7.5%
Connectors	166.6	3.9%	-14.0%
PWB connectors	103.7	-2.3%	-14.7%
Other connectors	62.8	16.1%	-12.6%
Electronic circuit boards	427.0	20.3%	-6.9%
Rigid PWB	223.7	8.1%	-9.1%
Flexible PWB	12.8	8.7%	-24.1%
Module boards	190.5	39.9%	-2.6%
Rigid Module boards	188.3	40.9%	-2.4%
Electronic circuit jisso boards	177.4	11.8%	-17.2%
Printed wiring jisso boards	87.0	4.1%	-21.3%
Module jisso boards	90.4	20.3%	-12.8%

Source: METI, J.P. Morgan.

Figure 2: Semiconductors: Summary of METI current production statistics (August 2026)

Production volume	mn units	YoY	MoM
Discrete Semiconductors	973.4	47.6%	2.2%
Diodes and Rectifiers	625.6	46.6%	-5.2%
Si-Transistors	208.6	121.2%	79.2%
Si MOSFET	124.9	3.1%	-22.3%
IGBT	14.4	-17.7%	-4.4%
MCU	43.8	-28.1%	0.4%
Logic IC	162.8	32.5%	-15.6%
Memory	46.5	3.8%	-14.3%

Production value	JPY mn	YoY	MoM
Discrete Semiconductors	34,451	-1.0%	-10.3%
Diodes and Rectifiers	3,223	-8.6%	-17.9%
Si-Transistors	3,816	116.2%	139.7%
Si MOSFET	5,656	17.5%	-24.7%
IGBT	21,756	-11.9%	-14.3%
MCU	5,864	-11.5%	-7.0%
Logic IC	16,344	31.6%	-2.0%
Memory	241,256	365.3%	3.4%

Production value	$ mn	YoY	MoM
Discrete Semiconductors	216.8	-8.1%	-8.4%
Diodes and Rectifiers	20.3	-15.1%	-16.2%
Si-Transistors	24.0	100.6%	144.7%
Si MOSFET	35.6	9.0%	-23.1%
IGBT	136.9	-18.2%	-12.5%
MCU	36.9	-17.9%	-5.0%
Logic IC	102.8	22.1%	0.0%
Memory	1,517.9	331.8%	5.5%

Source: METI, J.P. Morgan.

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Figure 3: Electronic components sector: Valuation summary

Ticker	Company	Share Price (JPY)	Price Target (JPY)	Return	Rating	Market Capitalization (JPY mn)	P/E FY26E (x)	P/E FY27E (x)	P/E FY28E (x)	EPS FY26E (x)	EPS FY27E (x)	EPS FY28E (x)	EV/EBITDA FY26E (x)	EV/EBITDA FY27E (x)	EV/EBITDA FY28E (x)	P/B FY26E (x)	P/B FY27E (x)	P/B FY28E (x)
6981	Murata Mfg.	8,683	13,700	57.8%	OW	16,261,507	41.54	26.61	17.59	209	326	494	20.37	13.60	9.42	5.51	4.78	4.21
6976	Taiyo Yuden	11,460	18,100	57.9%	OW	1,511,837	52.52	25.78	16.83	218	445	681	13.99	9.61	7.12	3.95	3.49	2.94
6762	TDK	3,530	4,500	27.5%	OW	6,562,471	23.57	20.16	16.70	150	175	211	8.68	7.15	5.95	2.82	2.59	2.35
6971	Kyocera	3,827	3,900	1.9%	N	5,348,591	33.53	29.83	26.69	114	128	143	18.25	15.84	13.84	1.51	1.59	1.67
6963	Rohm	5,375	8,000	48.8%	OW	2,052,312	45.50	24.63	18.68	118	218	288	17.23	10.54	8.34	2.66	2.48	2.24
6996	Nichicon	2,742	4,100	49.5%	OW	186,690	17.96	14.93	13.00	153	184	211	7.32	6.19	5.36	1.45	1.34	1.23
6997	Nippon Chemi-con	2,355	3,700	57.1%	OW	63,291	13.53	9.30	6.85	174	253	344	8.61	6.98	5.60	1.15	1.02	0.88
6594	Nidec	2,165	1,500	-30.7%	UW	2,550,905	12.29	10.72	-	176	202	-	6.45	5.45	-	1.22	1.09	-
6479	MinebeaMitsumi	3,847	5,100	32.6%	OW	1,577,209	16.89	14.38	12.67	228	268	304	11.42	9.87	8.57	1.60	1.47	1.35
4062	Ibiden	12,270	14,350	17.0%	OW	6,744,755	45.16	33.71	25.08	272	364	489	30.72	24.50	19.82	5.52	4.81	4.08
6806	Hirose Elec	25,795	33,300	29.1%	OW	876,037	20.47	16.25	14.29	1,260	1,587	1,805	9.08	7.94	7.16	1.98	1.88	1.78
6807	JAE	2,777	2,100	-24.4%	UW	200,292	29.87	21.96	16.78	93	126	166	5.68	4.88	4.23	1.27	1.23	1.18
6770	AlpsAlpine	2,228	2,370	6.4%	N	461,366	15.61	13.89	12.43	143	160	179	4.62	4.19	3.91	0.94	0.90	0.86
5334	Niterra	4,008	6,500	62.2%	OW	1,541,379	6.99	6.02	5.48	574	666	732	10.28	8.76	7.76	0.94	0.86	0.78
6727	Wacom	852	1,300	52.6%	OW	115,020	11.69	11.20	10.72	73	76	79	5.09	4.11	3.16	2.27	1.79	1.47
7915	NISSHA	1,105	1,260	14.0%	N	52,866	15.71	11.23	7.89	70	98	140	5.62	4.97	4.11	0.45	0.44	0.43
Simple Average		-	-	28.7%	-	2,881,658	25.18	18.16	14.78	252	330	418	11.46	9.04	7.62	2.20	1.98	1.83

Ticker	Company	Share Price (JPY)	Price Target (JPY)	Return	Rating	Market Capitalization (JPY mn)	ROE FY26E	ROE FY27E	ROE FY28E	DPS FY26E (JPY)	DPS FY27E (JPY)	DPS FY28E (JPY)	Dividend Yield FY26E	Dividend Yield FY27E	Dividend Yield FY28E	Dividend Payout Ratio FY26E	Dividend Payout Ratio FY27E	Dividend Payout Ratio FY28E
6981	Murata Mfg.	8,683	13,700	57.8%	OW	16,261,507	13.5%	19.3%	25.3%	70.0	85.0	100.0	0.8%	1.0%	1.2%	33.5%	26.1%	20.3%
6976	Taiyo Yuden	11,460	18,100	57.9%	OW	1,511,837	8.4%	15.7%	20.7%	95.0	105.0	125.0	0.8%	0.9%	1.1%	43.5%	23.6%	18.4%
6762	TDK	3,530	4,500	27.5%	OW	6,562,471	12.5%	13.4%	14.7%	50.0	60.0	70.0	1.4%	1.7%	2.0%	33.4%	34.3%	33.1%
6971	Kyocera	3,827	3,900	1.9%	N	5,348,591	4.4%	5.2%	6.1%	56.0	56.0	56.0	1.5%	1.5%	1.5%	49.1%	43.6%	39.0%
6963	Rohm	5,375	8,000	48.8%	OW	2,052,312	6.9%	12.1%	14.7%	50.0	55.0	65.0	0.9%	1.0%	1.2%	42.3%	25.2%	22.6%
6996	Nichicon	2,742	4,100	49.5%	OW	186,690	9.0%	10.3%	10.8%	39.0	41.0	43.0	1.4%	1.5%	1.6%	25.5%	22.3%	20.4%
6997	Nippon Chemi-con	2,355	3,700	57.1%	OW	63,291	8.0%	10.6%	12.7%	25.0	25.0	25.0	1.1%	1.1%	1.1%	14.4%	9.9%	7.3%
6594	Nidec	2,165	1,500	-30.7%	UW	2,550,905	10.3%	10.6%	-	0.0	0.0	-	0.0%	0.0%	-	0.0%	0.0%	-
6479	MinebeaMitsumi	3,847	5,100	32.6%	OW	1,577,209	9.8%	10.7%	11.1%	60.0	62.0	65.0	1.6%	1.6%	1.7%	26.3%	23.2%	21.4%
4062	Ibiden	12,270	14,350	17.0%	OW	6,744,755	13.7%	16.1%	18.6%	35.0	55.0	65.0	0.3%	0.4%	0.5%	12.9%	15.1%	13.3%
6806	Hirose Elec	25,795	33,300	29.1%	OW	876,037	10.0%	11.8%	12.7%	580.0	640.0	680.0	2.2%	2.5%	2.6%	46.0%	40.3%	37.7%
6807	JAE	2,777	2,100	-24.4%	UW	200,292	4.3%	5.7%	7.2%	50.0	60.0	70.0	1.8%	2.2%	2.5%	53.8%	47.4%	42.3%
6770	AlpsAlpine	2,228	2,370	6.4%	N	461,366	6.4%	7.0%	7.5%	64.0	72.0	76.0	2.9%	3.2%	3.4%	44.8%	44.9%	42.4%
5334	Niterra	4,008	6,500	62.2%	OW	1,541,379	14.0%	14.9%	14.9%	220.0	250.0	280.0	5.5%	6.2%	7.0%	38.4%	37.6%	38.3%
6727	Wacom	852	1,300	52.6%	OW	115,020	22.3%	17.9%	15.1%	24.0	24.0	24.0	2.8%	2.8%	2.8%	32.9%	31.5%	30.2%
7915	NISSHA	1,105	1,260	14.0%	N	52,866	2.9%	4.0%	5.5%	50.0	50.0	50.0	4.5%	4.5%	4.5%	71.1%	50.8%	35.7%
Simple Average		-	-	28.7%	-	2,881,658	9.8%	11.6%	13.2%	-	-	-	1.8%	2.0%	2.3%	35.5%	29.7%	28.2%

Ticker	Company	Share Price (JPY)	Price Target (JPY)	Return	Rating	Market Capitalization (JPY mn)	ROIC FY26E	ROIC FY27E	ROIC FY28E	FCF FY26E (JPY mn)	FCF FY27E (JPY mn)	FCF FY28E (JPY mn)	FCF Yield FY26E	FCF Yield FY27E	FCF Yield FY28E	Net Debt FY26E (JPY mn)	Net Debt FY27E (JPY mn)	Net Debt FY28E (JPY mn)
6981	Murata Mfg.	8,683	13,700	57.8%	OW	16,261,507	13.0%	18.9%	25.0%	302,770	504,085	782,706	1.9%	3.1%	4.8%	-468,379	-599,221	-627,458
6976	Taiyo Yuden	11,460	18,100	57.9%	OW	1,511,837	6.7%	12.2%	16.6%	37,821	41,671	90,371	2.5%	2.8%	6.0%	72,194	81,865	52,296
6762	TDK	3,530	4,500	27.5%	OW	6,562,471	10.2%	10.8%	12.0%	151,693	292,267	381,190	2.3%	4.5%	5.8%	-215,511	-317,468	-495,470
6971	Kyocera	3,827	3,900	1.9%	N	5,348,591	2.8%	3.5%	4.4%	37,228	113,868	118,689	0.7%	2.1%	2.2%	-228,990	-251,046	-272,541
6963	Rohm	5,375	8,000	48.8%	OW	2,052,312	4.7%	8.2%	10.1%	29,464	70,807	103,870	1.4%	3.5%	5.1%	-145,628	-138,747	-150,637
6996	Nichicon	2,742	4,100	49.5%	OW	186,690	6.6%	6.8%	7.3%	9,656	12,157	14,513	5.2%	6.5%	7.8%	-2,337	-5,282	-10,952
6997	Nippon Chemi-con	2,355	3,700	57.1%	OW	63,291	4.9%	6.1%	7.4%	6,034	7,675	9,945	9.5%	12.1%	15.7%	52,585	49,932	46,146
6594	Nidec	2,165	1,500	-30.7%	UW	2,550,905	7.2%	7.6%	-	200,731	229,204	-	7.9%	9.0%	-	141,080	-44,638	-
6479	MinebeaMitsumi	3,847	5,100	32.6%	OW	1,577,209	6.4%	7.4%	7.9%	72,494	97,443	125,943	4.6%	6.2%	8.0%	240,308	174,250	80,330
4062	Ibiden	12,270	14,350	17.0%	OW	6,744,755	10.9%	13.1%	15.4%	-48,888	-95,004	-18,364	-0.7%	-1.4%	-0.3%	64,851	202,152	263,496
6806	Hirose Elec	25,795	33,300	29.1%	OW	876,037	9.2%	10.9%	11.8%	32,062	42,328	49,209	3.7%	4.8%	5.6%	-147,309	-146,797	-148,422
6807	JAE	2,777	2,100	-24.4%	UW	200,292	3.9%	5.1%	6.6%	5,117	8,424	11,457	2.6%	4.2%	5.7%	-4,947	-7,284	-11,348
6770	AlpsAlpine	2,228	2,370	6.4%	N	461,366	5.9%	6.4%	6.8%	10,959	18,386	22,265	2.4%	4.0%	4.8%	-53,801	-50,127	-52,900
5334	Niterra	4,008	6,500	62.2%	OW	1,541,379	10.4%	11.3%	11.7%	106,559	126,650	141,667	6.9%	8.2%	9.2%	-15,975	-76,096	-144,485
6727	Wacom	852	1,300	52.6%	OW	115,020	25.6%	20.2%	16.9%	9,799	10,236	10,693	8.5%	8.9%	9.3%	-26,812	-39,699	-53,147
7915	NISSHA	1,105	1,260	14.0%	N	52,866	2.1%	2.9%	3.8%	5,061	4,663	6,633	9.6%	8.8%	12.5%	26,256	24,223	20,210
Simple Average		-	-	28.7%	-	2,881,658	8.2%	9.5%	10.9%	-	-	-	4.3%	5.5%	6.8%	-	-	-

Source: Company data, J.P. Morgan estimates.
Note: The share prices and market caps are as of the market close on October 15, 2026.

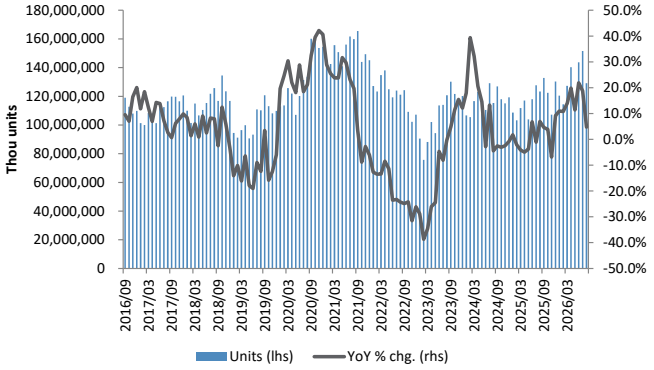
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Electronic Components

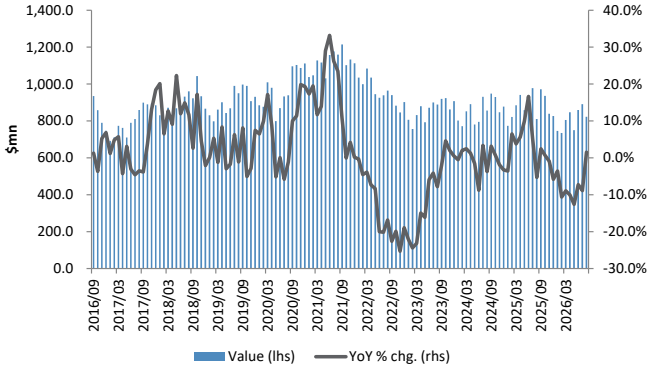
The following figures display trends in domestic production quantity and production value for major electronic components and semiconductors.

Figure 4: Passive Components: Production quantity ('000 units)



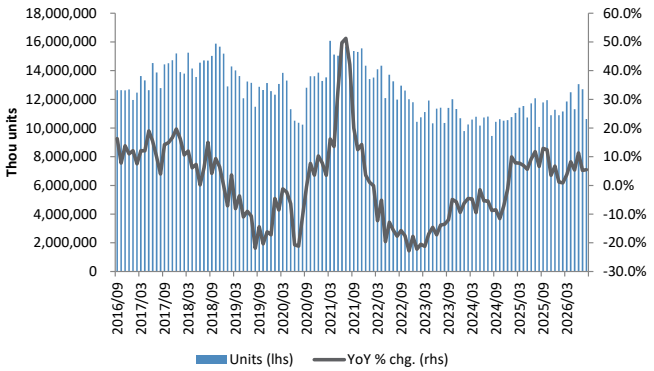
Source: METI, J.P. Morgan.

Figure 5: Passive Components: Production value ($mn)



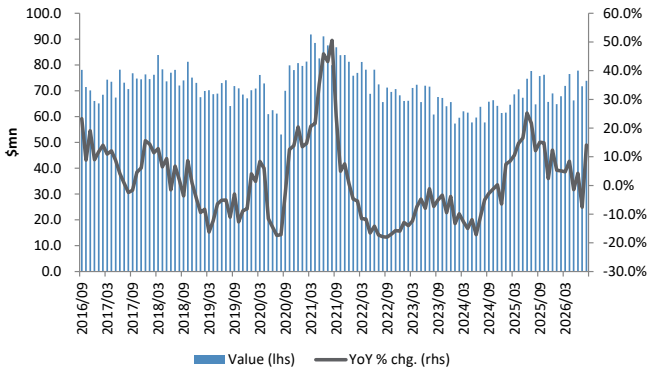
Source: METI, J.P. Morgan.

Figure 6: Resistors: Production quantity ('000 units)



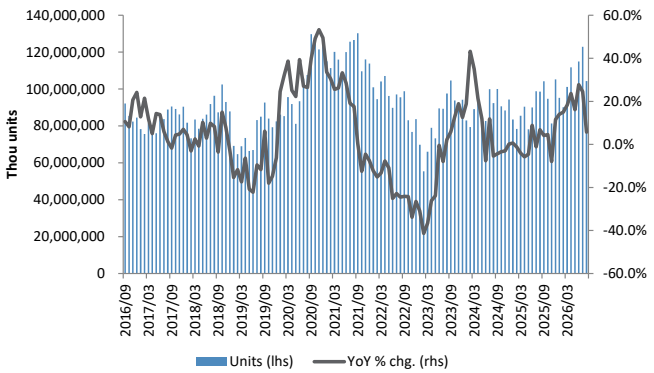
Source: METI, J.P. Morgan.

Figure 7: Resistors: Production value ($mn)



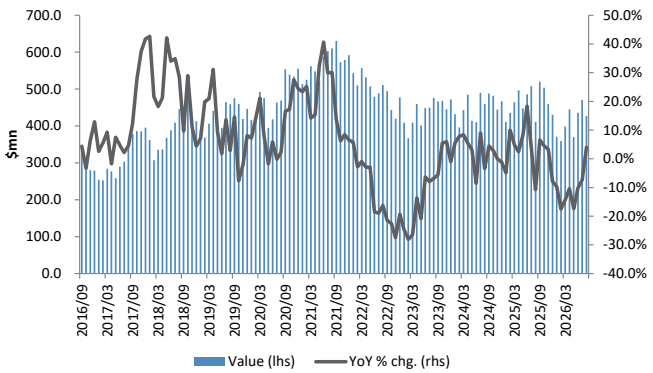
Source: METI, J.P. Morgan.

Figure 8: Ceramic capacitors: Production quantity ('000 units)



Source: METI, J.P. Morgan.

Figure 9: Ceramic capacitors: Production value ($mn)

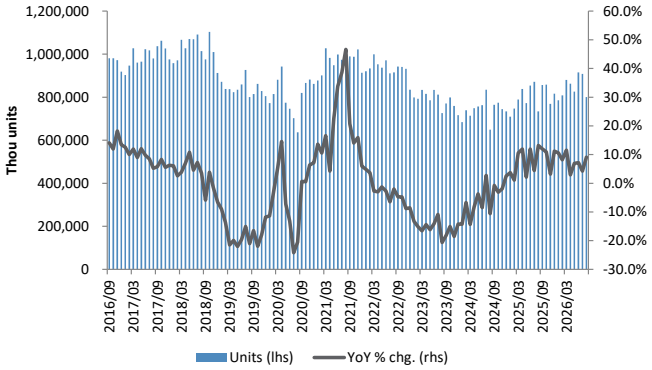


Source: METI, J.P. Morgan.

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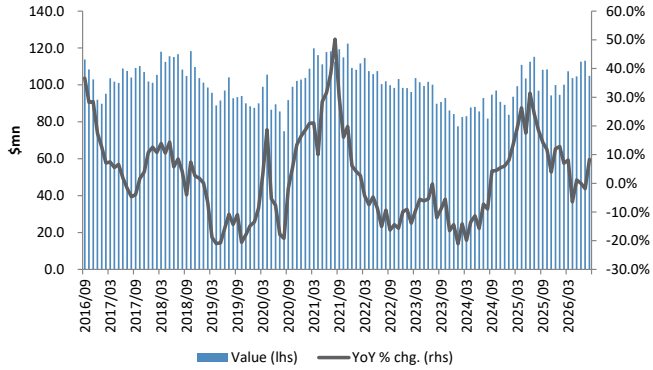
J.P.Morgan

Figure 10: Aluminum electrolytic capacitors: Production quantity ('000 units)



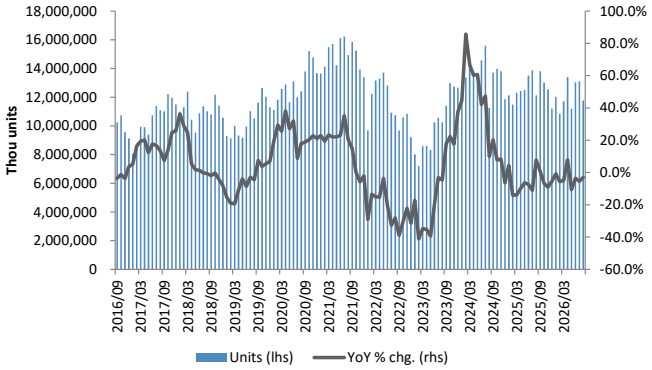
Source: METI, J.P. Morgan.

Figure 11: Aluminum electrolytic capacitors: Production value ($mn)



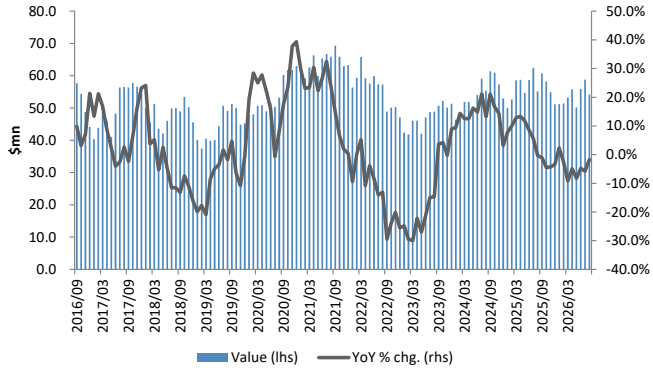
Source: METI, J.P. Morgan.

Figure 12: Inductors: Production quantity ('000 units)



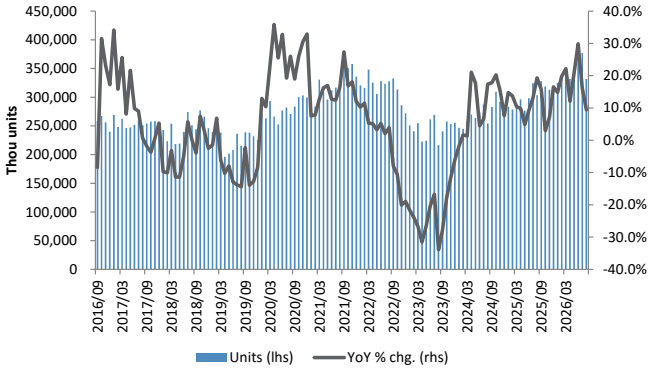
Source: METI, J.P. Morgan.

Figure 13: Inductors: Production value ($mn)



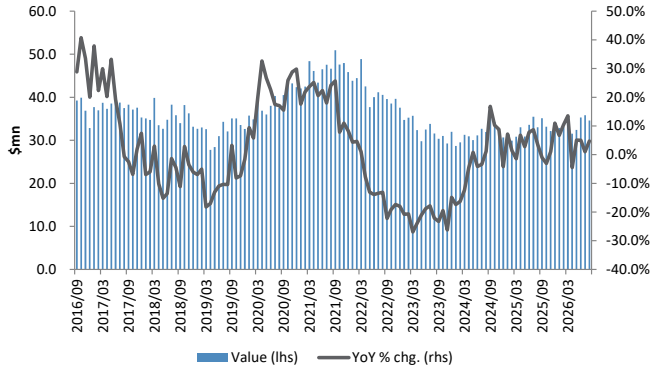
Source: METI, J.P. Morgan.

Figure 14: Quartz crystals: Production quantity ('000 units)



Source: METI, J.P. Morgan.

Figure 15: Quartz crystals: Production value ($mn)

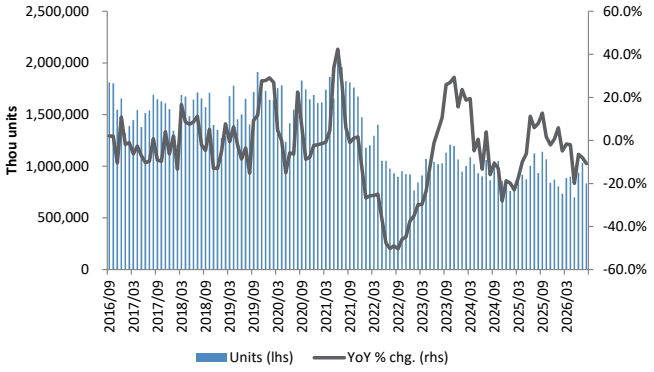


Source: METI, J.P. Morgan.

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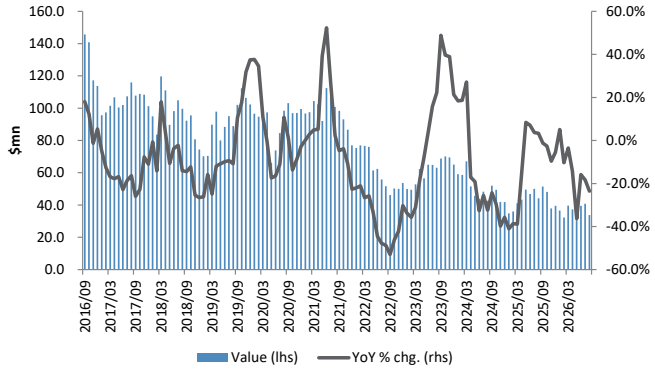
J.P.Morgan

Figure 16: Filters: Production quantity ('000 units)



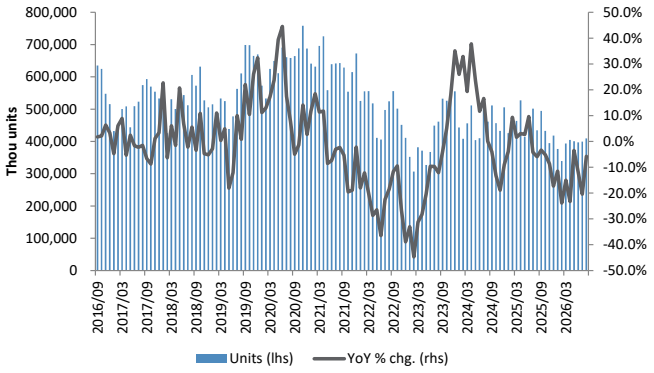
Source: METI, J.P. Morgan.

Figure 17: Filters: Production value ($mn)



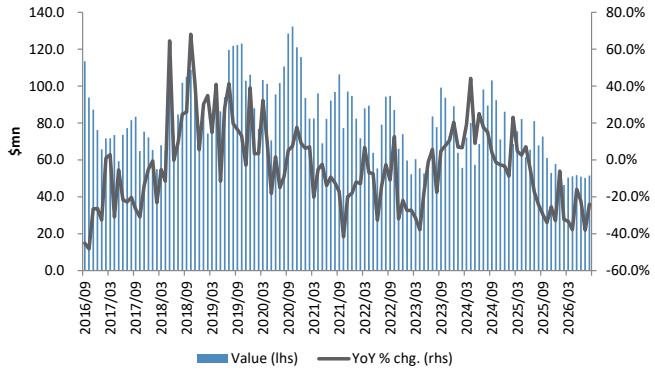
Source: METI, J.P. Morgan.

Figure 18: Multiple components: Production quantity ('000 units)



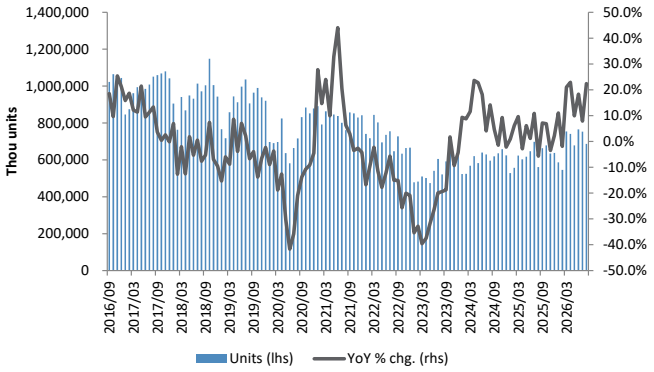
Source: METI, J.P. Morgan.

Figure 19: Multiple components: Production value ($mn)



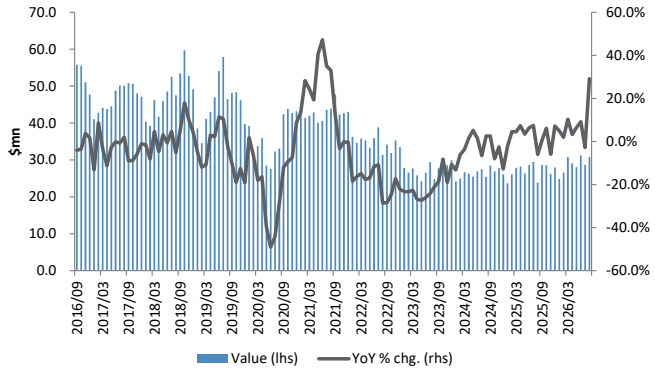
Source: METI, J.P. Morgan.

Figure 20: Switches: Production quantity ('000 units)



Source: METI, J.P. Morgan.

Figure 21: Switches: Production value ($mn)



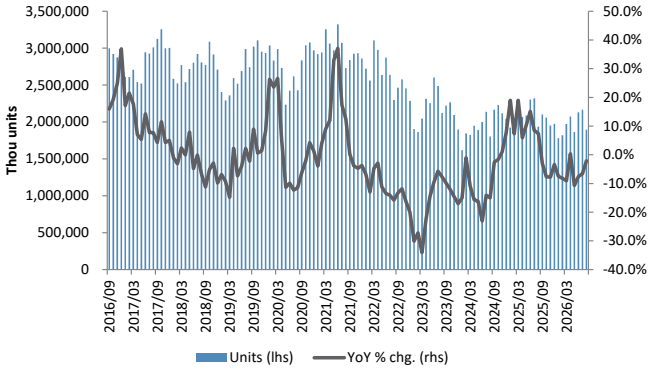
Source: METI, J.P. Morgan.



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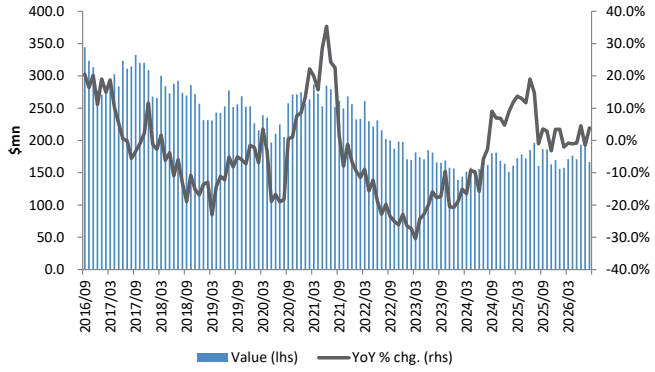
J.P.Morgan

Figure 22: Connectors: Production quantity ('000 units)



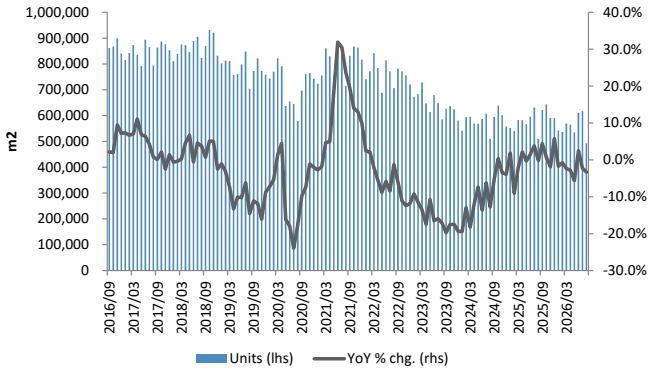
Source: METI, J.P. Morgan.

Figure 23: Connectors: Production value ($mn)



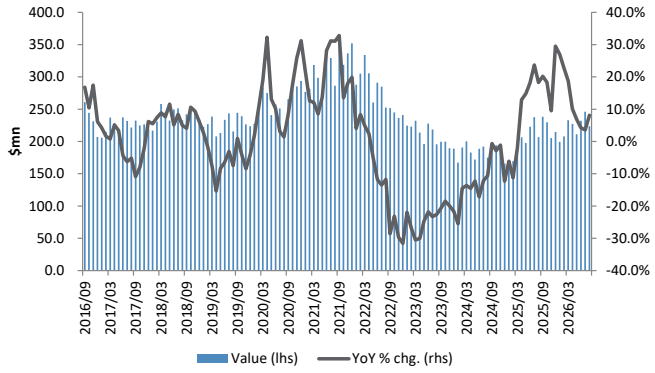
Source: METI, J.P. Morgan.

Figure 24: Rigid PWBs: Production quantity (square meters)



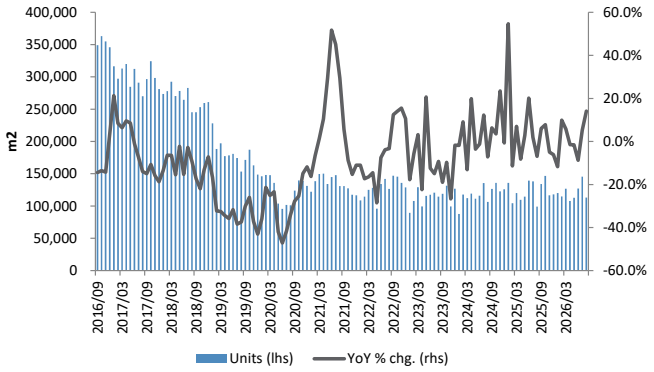
Source: METI, J.P. Morgan.

Figure 25: Rigid PWBs: Production value ($mn)



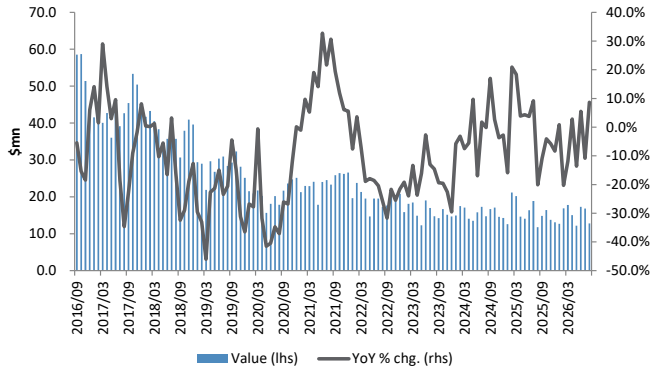
Source: METI, J.P. Morgan.

Figure 26: Flexible PWBs: Production quantity (square meters)



Source: METI, J.P. Morgan.

Figure 27: Flexible PWBs: Production value ($mn)

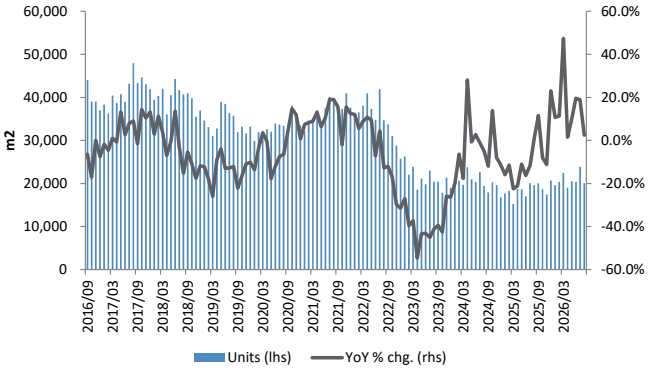


Source: METI, J.P. Morgan.

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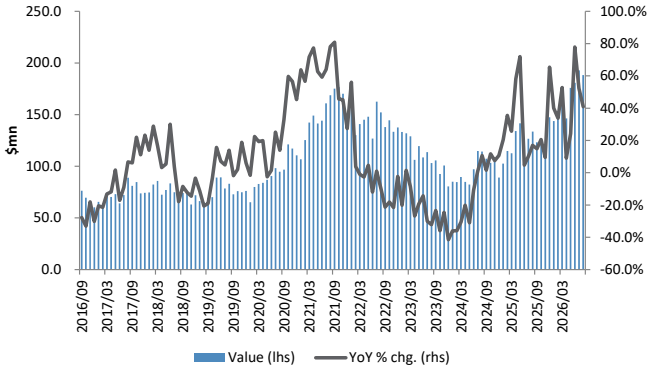
J.P.Morgan

Figure 28: Rigid module boards: Production quantity (square meters)



Source: METI, J.P. Morgan.

Figure 29: Rigid module boards: Production value ($mn)



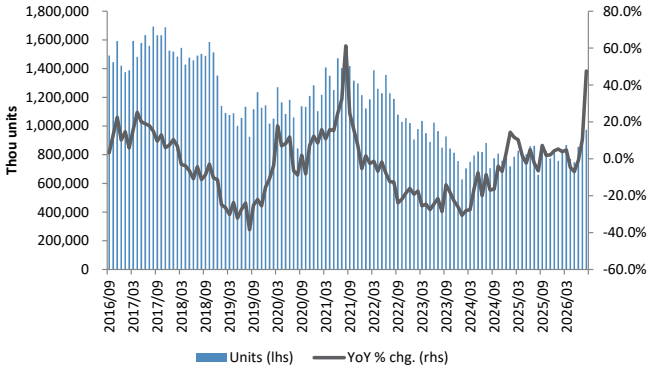
Source: METI, J.P. Morgan.

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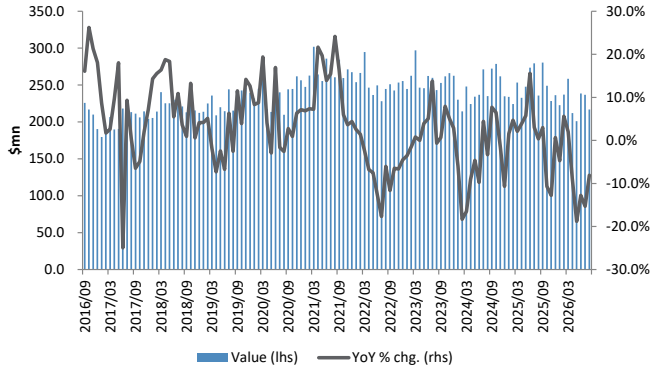
Semiconductors

Figure 30: Discrete semiconductors: Production quantity ('000 units)



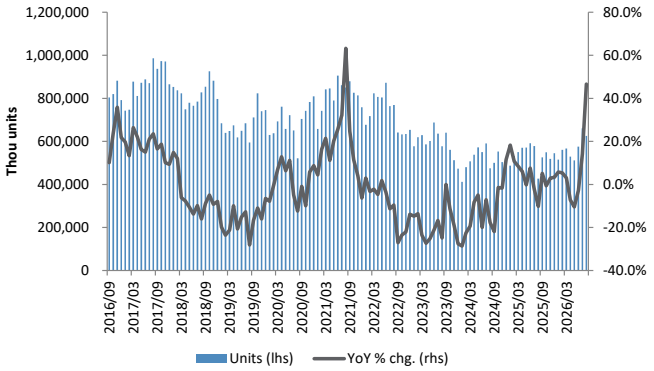
Source: METI, J.P. Morgan.

Figure 31: Discrete semiconductors: Production value ($mn)



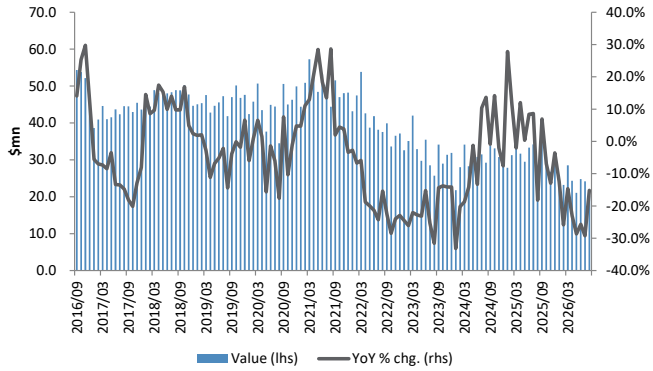
Source: METI, J.P. Morgan.

Figure 32: Diodes and rectifiers: Production quantity ('000 units)



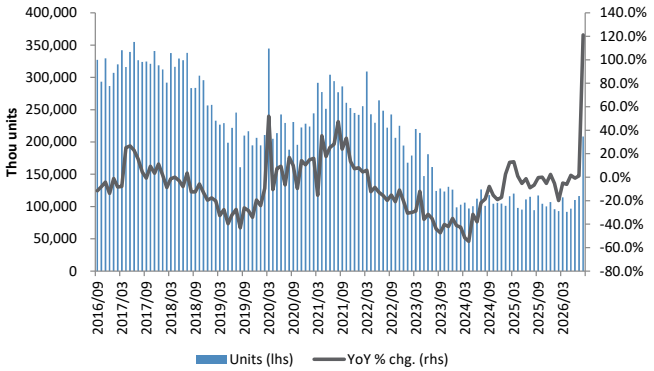
Source: METI, J.P. Morgan.

Figure 33: Diodes and rectifiers: Production value ($mn)



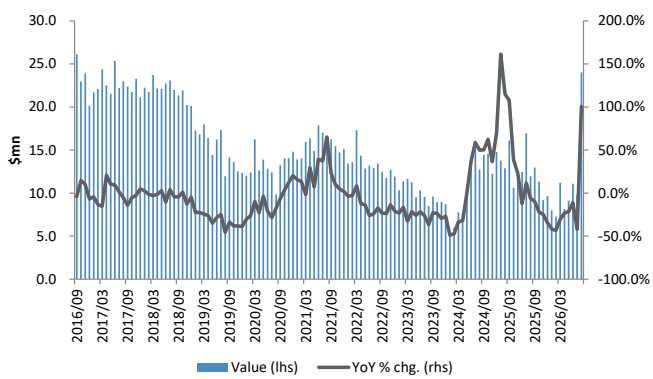
Source: METI, J.P. Morgan.

Figure 34: Si-Transistors: Production quantity ('000 units)



Source: METI, J.P. Morgan.

Figure 35: Si-Transistors: Production value ($mn)

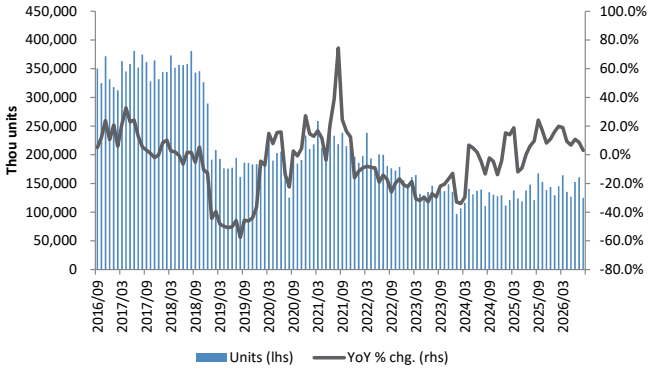


Source: METI, J.P. Morgan.

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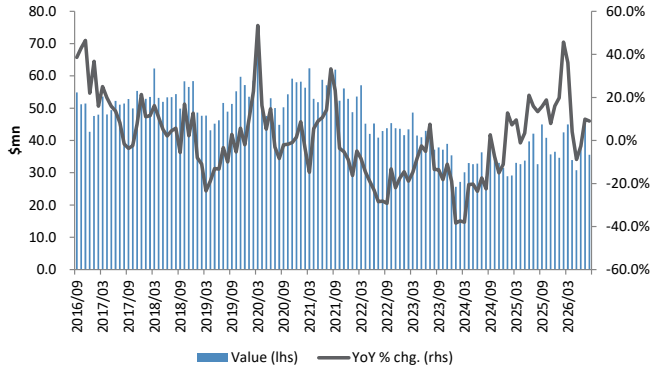
J.P.Morgan

Figure 36: Si-MOSFET: Production quantity ('000 units)



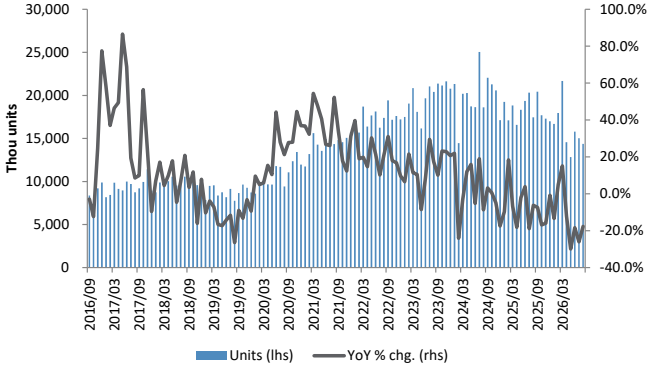
Source: METI, J.P. Morgan.

Figure 37: Si-MOSFET: Production value ($mn)



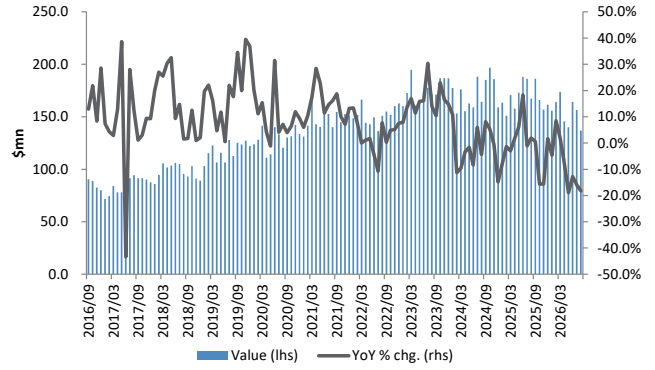
Source: METI, J.P. Morgan.

Figure 38: IGBTs: Production quantity ('000 units)



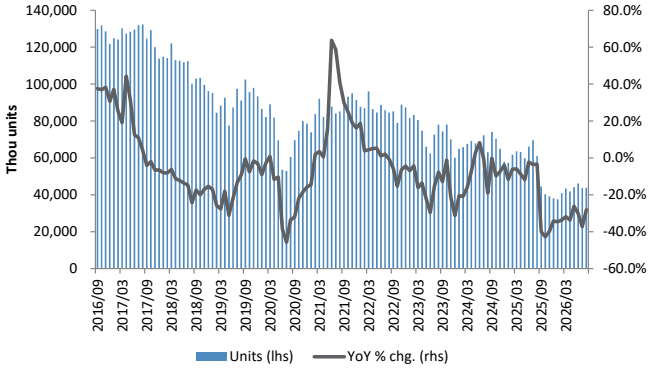
Source: METI, J.P. Morgan.

Figure 39: IGBTs: Production value ($mn)



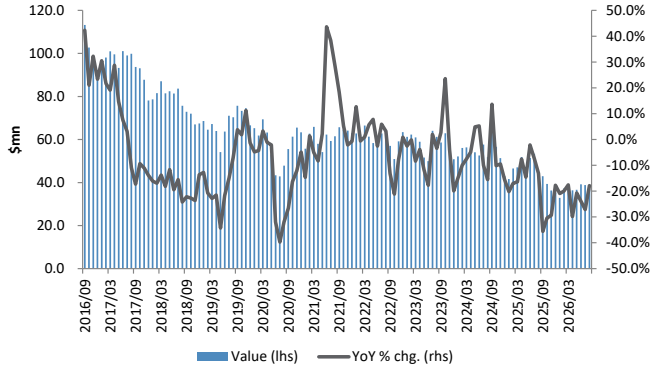
Source: METI, J.P. Morgan.

Figure 40: MCUs: Production quantity ('000 units)



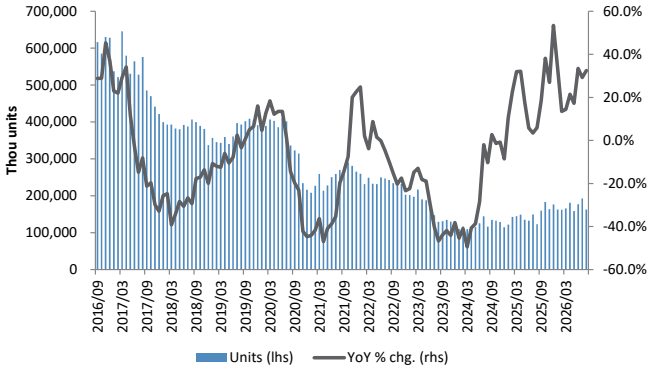
Source: METI, J.P. Morgan.

Figure 41: MCUs: Production value ($mn)



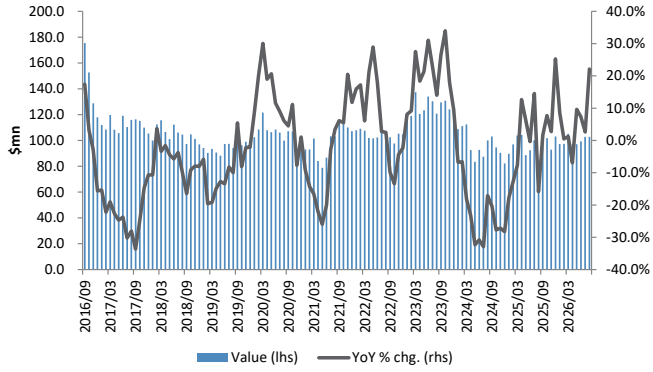
Source: METI, J.P. Morgan.

Figure 42: Logic ICs: Production quantity ('000 units)



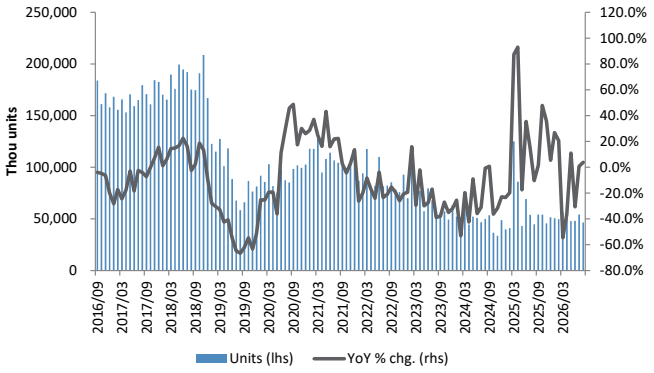
Source: METI, J.P. Morgan.

Figure 43: Logic ICs: Production value ($mn)



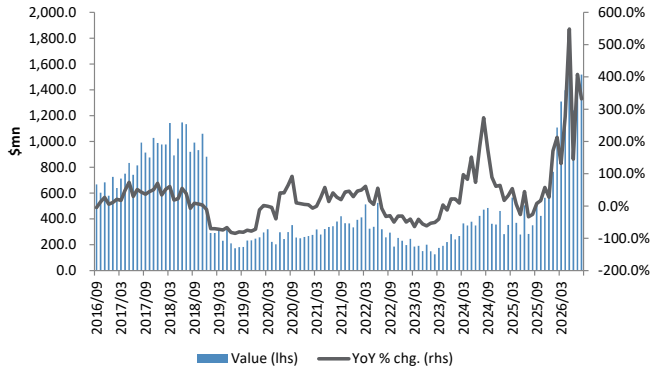
Source: METI, J.P. Morgan.

Figure 44: Memory: Production quantity ('000 units)



Source: METI, J.P. Morgan.

Figure 45: Memory: Production value ($mn)



Source: METI, J.P. Morgan.