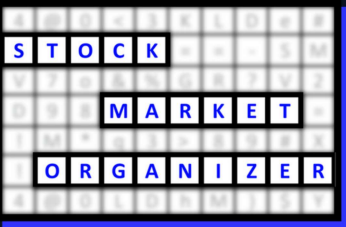


# Industry Status: Electronics (Chips/Semis)

1 week 12/07/23 to 12/14/23								
9Weakest	8VWeak	7Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest
.	.	.	.	122 ELECTRNCS->	122 ELECTRNCS->	.	.	.
.	.	.	.	24 Div Elect->	24 Div Elect->	.	.	.
.	.	.	.	.	.	7 Circuit Boards->	7 Circuit Boards->	.
.	.	.	.	20 Sci/Tech Inst->	20 Sci/Tech Inst->	.	.	.
.	.	.	.	.	13 BroadLine->	13 BroadLine->	.	.
.	.	.	.	14 IC Semis->	14 IC Semis->	.	.	.
.	.	.	.	.	4 Mem Chips	.	.	.
.	.	.	17 Spec Semis->	17 Spec Semis->	.	.	.	.
.	.	.	.	23 Equip/Mtl->	23 Equip/Mtl->	.	.	.
.	.	.	.	.	.	.	.	.

December 14, 2023  
UP +1 to **STRONG** strength rating  
(**4th** strongest of 9 levels)  
previous move was **also UP**

1-week 7/8 sub-industries strengthened, 95% stocks positive, 40% stocks >10%



# Table of Contents

1	1. INDUSTRY OVERVIEW	
		1A. Performance
		1B. Background
2	2. SUB-INDUSTRIES AND STOCK DETAIL	
		2A. Sub-Industries Overview
		2B. Sub-Industries 10-Week Strengthening Analysis
		2C. Stocks 1 Week Strongest and Weakest
5	3. STRENGTH BY LOOKBACK PERIOD (with Best/Worst stocks)	
		3A. Lookback 3 Months
		3B. Lookback 4 weeks
		3C. Lookback 1 Week

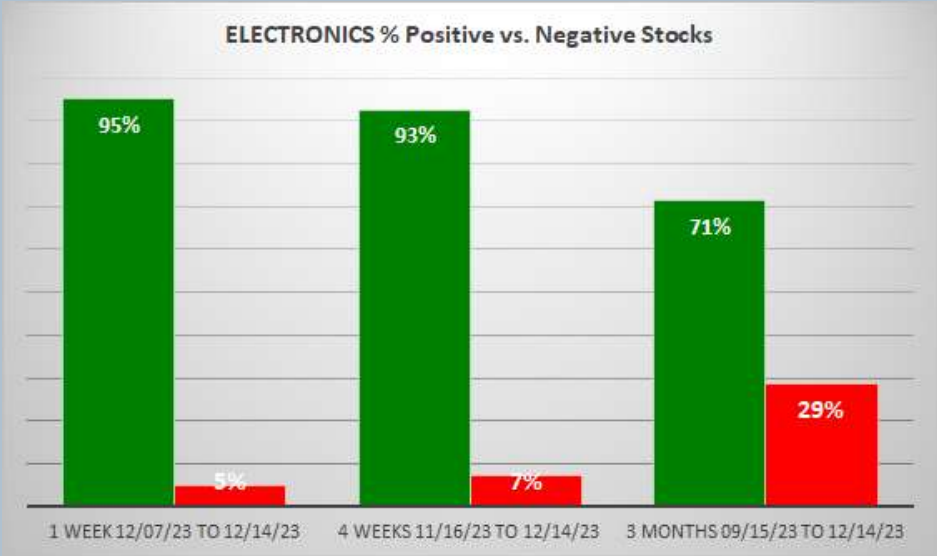
1. INDUSTRY OVERVIEW

1A. Performance

Past 10 Weeks Strengthening/Weakening week-by-week, per the following chart:

9Weakest	8VWeak	7Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest	Period
.	.	.	.	122 ELECTRNCS->	122 ELECTRNCS->	.	.	.	7 Days - 12/07/23 to 12/14/23
.	.	.	.	122 ELECTRNCS	.	.	.	.	7 Days - 11/30/23 to 12/07/23
.	.	.	.	122 ELECTRNCS	.	.	.	.	8 Days - 11/22/23 to 11/30/23
.	.	.	.	122 ELECTRNCS	.	.	.	.	6 Days - 11/16/23 to 11/22/23
.	.	.	122 ELECTRNCS->	122 ELECTRNCS->	.	.	.	.	7 Days - 11/09/23 to 11/16/23
.	.	.	122 ELECTRNCS	.	.	.	.	.	7 Days - 11/02/23 to 11/09/23
.	.	122 ELECTRNCS->	122 ELECTRNCS->	.	.	.	.	.	7 Days - 10/26/23 to 11/02/23
.	.	<-ELECTRNCS 122	<-ELECTRNCS 122	.	.	.	.	.	7 Days - 10/19/23 to 10/26/23
.	.	.	122 ELECTRNCS	.	.	.	.	.	7 Days - 10/12/23 to 10/19/23
.	.	.	122 ELECTRNCS	.	.	.	.	.	7 Days - 10/05/23 to 10/12/23

STRENGTHENING 1 Week vs. Mid- and Longer-Term // 1 week positive/negative stocks ratio is HIGHER than both 4 weeks and 3 Months, per the following chart:



## 1B. Background

Largest of 8 sub-industries (122 stocks, average 15):

- \* Diversified Electronics (24 stocks)
- \* Semiconductor Equipment & Materials (23 stocks)
- \* Scientific & Technical Instruments (20 stocks)
- \* Semiconductor – Specialized (17 stocks)
- \* Semiconductor – Integrated Circuits (14 stocks)

Top 10 by Market Capitalization:

NVDA/NVIDIA Corporation, TSM/Taiwan Semiconductor Manufacturing Company Ltd. ADS, AVGO/Broadcom Inc, AMD/Advanced Micro Devices, INTC/Intel Corp, TXN/Texas Instruments Inc, AMAT/Applied Materials Inc, LRCX/Lam Research Corp, ADI/Analog Devices Inc, MU/Micron Technology Inc

## 2. SUB-INDUSTRIES AND STOCKS DETAIL

### 2A. Sub-Industries Overview

Strengthened: 7/8 sub-industries

Weakened: 0/8 sub-industries

STRONGEST at Very Strong rating/2nd strongest of 9 levels:

- \* Printed Circuit Boards (7 stocks)

WEAKEST at Average rating/5th strongest of 9 levels:

- \* Semiconductor – Specialized (17 stocks)

## 2B. Sub-Industries 10-Week Strengthening Analysis

What: recent week-by-week strength changes for the industry and its sub-industries  
Why: objective measurement of strengthening and weakening enabling comparison within and across industries and sub-industries

### INDUSTRY CURRENT PERIOD SUMMARY

Length - Begin/End	Industry/Sub-Industry	Period	#	Min	Avg	Max	Status	1Week	2Week	3Week	4Week	5Week	6Week	7Week	8Week	9Week	10Week
7 Days - 12/07/23 to 12/14/23	ELECTRONICS	Period 1 of 10 (Current)	122	-3%	0%	30%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Diversified Electronics	Period 1 of 10 (Current)	24	-1%	0%	17%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Printed Circuit Boards	Period 1 of 10 (Current)	7	0%	0%	17%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Scientific & Technical Instruments	Period 1 of 10 (Current)	20	-4%	0%	12%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Semiconductor - Broad Line	Period 1 of 10 (Current)	13	-5%	11%	21%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Semiconductor - Integrated Circuits	Period 1 of 10 (Current)	14	-8%	11%	39%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Semiconductor - Memory Chips	Period 1 of 10 (Current)	4	-4%	0%	12%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Semiconductor - Specialized	Period 1 of 10 (Current)	17	-3%	12%	30%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Semiconductor Equipment & Materials	Period 1 of 10 (Current)	23	-3%	0%	21%	Strengthened										
7 Days - 12/07/23 to 12/14/23		Period 1 of 10 (Current)															

### PREVIOUS WEEKS (EDUCATIONAL PURPOSES ONLY/NOT A STOCK OR INVESTMENT RECOMMENDATION)

Length - Begin/End	Industry/Sub-Industry	Period	#	Min	Avg	Max	Status	1Week	2Week	3Week	4Week	5Week	6Week	7Week	8Week	9Week	10Week
7 Days - 12/07/23 to 12/14/23	ELECTRONICS	Period 1 of 10 (Current)	122	-3%	0%	9%	39%	Strengthened							122 ELECTRONICS->	122 ELECTRONICS->	
7 Days - 11/30/23 to 12/07/23	ELECTRONICS	Period 2 of 10	122	-13%	2%	20%	Strengthened								122 ELECTRONICS	122 ELECTRONICS	
8 Days - 11/22/23 to 11/30/23	ELECTRONICS	Period 3 of 10	122	-14%	0%	16%	Unchanged										
6 Days - 11/16/23 to 11/22/23	ELECTRONICS	Period 4 of 10	122	-13%	1%	11%	Unchanged										
7 Days - 11/09/23 to 11/16/23	ELECTRONICS	Period 5 of 10	122	-14%	8%	38%	Strengthened								122 ELECTRONICS->	122 ELECTRONICS->	
7 Days - 11/02/23 to 11/09/23	ELECTRONICS	Period 6 of 10	122	-14%	-1%	16%	Strengthened								122 ELECTRONICS	122 ELECTRONICS	
7 Days - 10/26/23 to 11/02/23	ELECTRONICS	Period 7 of 10	122	-22%	2%	23%	Strengthened								122 ELECTRONICS->	122 ELECTRONICS->	
7 Days - 10/19/23 to 10/26/23	ELECTRONICS	Period 8 of 10	122	-30%	5%	19%	Weakened								<ELECTRONICS 122	<ELECTRONICS 122	
7 Days - 10/12/23 to 10/19/23	ELECTRONICS	Period 9 of 10	122	-38%	-6%	5%	Weakened								122 ELECTRONICS	122 ELECTRONICS	
7 Days - 10/05/23 to 10/12/23	ELECTRONICS	Period 10 of 10	122	-10%	2%	18%	Strengthened								122 ELECTRONICS	122 ELECTRONICS	
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Diversified Electronics	Period 1 of 10 (Current)	24	-1%	0%	8%	17%	Strengthened							24 Div Elect->	24 Div Elect->	
7 Days - 11/30/23 to 12/07/23	ELECTRONICS - Diversified Electronics	Period 2 of 10	24	-7%	3%	14%	Unchanged								24 Div Elect	24 Div Elect	
8 Days - 11/22/23 to 11/30/23	ELECTRONICS - Diversified Electronics	Period 3 of 10	24	-12%	0%	16%	Unchanged										
6 Days - 11/16/23 to 11/22/23	ELECTRONICS - Diversified Electronics	Period 4 of 10	24	-13%	1%	8%	Strengthened										
7 Days - 11/09/23 to 11/16/23	ELECTRONICS - Diversified Electronics	Period 5 of 10	24	-13%	5%	23%	Strengthened								24 Div Elect->	24 Div Elect->	
7 Days - 11/02/23 to 11/09/23	ELECTRONICS - Diversified Electronics	Period 6 of 10	24	-13%	-2%	10%	Unchanged								24 Div Elect	24 Div Elect	
7 Days - 10/26/23 to 11/02/23	ELECTRONICS - Diversified Electronics	Period 7 of 10	24	-5%	4%	17%	Strengthened								24 Div Elect	24 Div Elect	
7 Days - 10/19/23 to 10/26/23	ELECTRONICS - Diversified Electronics	Period 8 of 10	24	-20%	-1%	19%	Unchanged								<Div Elect 24	<Div Elect 24	
7 Days - 10/12/23 to 10/19/23	ELECTRONICS - Diversified Electronics	Period 9 of 10	24	-16%	4%	5%	Weakened								<Div Elect 24	<Div Elect 24	
7 Days - 10/05/23 to 10/12/23	ELECTRONICS - Diversified Electronics	Period 10 of 10	24	-10%	2%	16%	Strengthened								24 Div Elect	24 Div Elect	
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Printed Circuit Boards	Period 1 of 10 (Current)	7	0%	0%	17%	Strengthened										
7 Days - 11/30/23 to 12/07/23	ELECTRONICS - Printed Circuit Boards	Period 2 of 10	7	-4%	0%	2%	Unchanged										
8 Days - 11/22/23 to 11/30/23	ELECTRONICS - Printed Circuit Boards	Period 3 of 10	7	-12%	-2%	4%	Weakened										
6 Days - 11/16/23 to 11/22/23	ELECTRONICS - Printed Circuit Boards	Period 4 of 10	7	-3%	-1%	1%	Strengthened										
7 Days - 11/09/23 to 11/16/23	ELECTRONICS - Printed Circuit Boards	Period 5 of 10	7	3%	0%	12%	Strengthened										
7 Days - 11/02/23 to 11/09/23	ELECTRONICS - Printed Circuit Boards	Period 6 of 10	7	-2%	0%	1%	Weakened										
7 Days - 10/26/23 to 11/02/23	ELECTRONICS - Printed Circuit Boards	Period 7 of 10	7	-2%	6%	23%	Strengthened										
7 Days - 10/19/23 to 10/26/23	ELECTRONICS - Printed Circuit Boards	Period 8 of 10	7	-13%	-2%	4%	Strengthened										
7 Days - 10/12/23 to 10/19/23	ELECTRONICS - Printed Circuit Boards	Period 9 of 10	7	-8%	-5%	-2%	Weakened										
7 Days - 10/05/23 to 10/12/23	ELECTRONICS - Printed Circuit Boards	Period 10 of 10	7	-5%	2%	8%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Scientific & Technical Instruments	Period 1 of 10 (Current)	20	-4%	0%	6%	12%	Strengthened							20 Sci/Tech Inst->	20 Sci/Tech Inst->	
7 Days - 11/30/23 to 12/07/23	ELECTRONICS - Scientific & Technical Instruments	Period 2 of 10	20	-1%	0%	10%	Strengthened								20 Sci/Tech Inst	20 Sci/Tech Inst	
8 Days - 11/22/23 to 11/30/23	ELECTRONICS - Scientific & Technical Instruments	Period 3 of 10	20	-6%	6%	6%	Unchanged										
6 Days - 11/16/23 to 11/22/23	ELECTRONICS - Scientific & Technical Instruments	Period 4 of 10	20	-3%	2%	8%	Strengthened								20 Sci/Tech Inst	20 Sci/Tech Inst	
7 Days - 11/09/23 to 11/16/23	ELECTRONICS - Scientific & Technical Instruments	Period 5 of 10	20	-1%	5%	15%	Strengthened								20 Sci/Tech Inst	20 Sci/Tech Inst	
7 Days - 11/02/23 to 11/09/23	ELECTRONICS - Scientific & Technical Instruments	Period 6 of 10	20	-12%	0%	15%	Unchanged								20 Sci/Tech Inst	20 Sci/Tech Inst	
7 Days - 10/26/23 to 11/02/23	ELECTRONICS - Scientific & Technical Instruments	Period 7 of 10	20	-13%	1%	15%	Strengthened								20 Sci/Tech Inst->	20 Sci/Tech Inst->	
7 Days - 10/19/23 to 10/26/23	ELECTRONICS - Scientific & Technical Instruments	Period 8 of 10	20	-13%	3%	15%	Strengthened								<Sci/Tech Inst 20	<Sci/Tech Inst 20	
7 Days - 10/12/23 to 10/19/23	ELECTRONICS - Scientific & Technical Instruments	Period 9 of 10	20	-10%	1%	1%	Weakened								20 Sci/Tech Inst	20 Sci/Tech Inst	
7 Days - 10/05/23 to 10/12/23	ELECTRONICS - Scientific & Technical Instruments	Period 10 of 10	20	-6%	1%	12%	Strengthened								20 Sci/Tech Inst	20 Sci/Tech Inst	
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Semiconductor - Broad Line	Period 1 of 10 (Current)	13	-5%	11%	21%	Strengthened										
7 Days - 11/30/23 to 12/07/23	ELECTRONICS - Semiconductor - Broad Line	Period 2 of 10	13	-6%	1%	6%	Unchanged										
8 Days - 11/22/23 to 11/30/23	ELECTRONICS - Semiconductor - Broad Line	Period 3 of 10	13	-9%	1%	15%	Strengthened										
6 Days - 11/16/23 to 11/22/23	ELECTRONICS - Semiconductor - Broad Line	Period 4 of 10	13	-2%	1%	5%	Strengthened										
7 Days - 11/09/23 to 11/16/23	ELECTRONICS - Semiconductor - Broad Line	Period 5 of 10	13	-9%	9%	15%	Strengthened										
7 Days - 11/02/23 to 11/09/23	ELECTRONICS - Semiconductor - Broad Line	Period 6 of 10	13	-8%	1%	16%	Unchanged										
7 Days - 10/26/23 to 11/02/23	ELECTRONICS - Semiconductor - Broad Line	Period 7 of 10	13	-20%	3%	16%	Strengthened										
7 Days - 10/19/23 to 10/26/23	ELECTRONICS - Semiconductor - Broad Line	Period 8 of 10	13	-10%	-6%	-2%	Weakened										
7 Days - 10/12/23 to 10/19/23	ELECTRONICS - Semiconductor - Broad Line	Period 9 of 10	13	-7%	-4%	-2%	Weakened										
7 Days - 10/05/23 to 10/12/23	ELECTRONICS - Semiconductor - Broad Line	Period 10 of 10	13	-4%	3%	10%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Semiconductor - Integrated Circuits	Period 1 of 10 (Current)	14	-8%	3%	39%	Strengthened										
7 Days - 11/30/23 to 12/07/23	ELECTRONICS - Semiconductor - Integrated Circuits	Period 2 of 10	14	-8%	3%	19%	Strengthened										
8 Days - 11/22/23 to 11/30/23	ELECTRONICS - Semiconductor - Integrated Circuits	Period 3 of 10	14	-4%	0%	4%	Strengthened										
6 Days - 11/16/23 to 11/22/23	ELECTRONICS - Semiconductor - Integrated Circuits	Period 4 of 10	14	-1%	1%	7%	Unchanged										
7 Days - 11/09/23 to 11/16/23	ELECTRONICS - Semiconductor - Integrated Circuits	Period 5 of 10	14	2%	9%	16%	Strengthened										
7 Days - 11/02/23 to 11/09/23	ELECTRONICS - Semiconductor - Integrated Circuits	Period 6 of 10	14	-3%	0%	9%	Unchanged										
7 Days - 10/26/23 to 11/02/23	ELECTRONICS - Semiconductor - Integrated Circuits	Period 7 of 10	14	-3%	1%	8%	Unchanged										
7 Days - 10/19/23 to 10/26/23	ELECTRONICS - Semiconductor - Integrated Circuits	Period 8 of 10	14	-8%	5%	5%	Weakened										
7 Days - 10/12/23 to 10/19/23	ELECTRONICS - Semiconductor - Integrated Circuits	Period 9 of 10	14	-32%	-7%	1%	Weakened										
7 Days - 10/05/23 to 10/12/23	ELECTRONICS - Semiconductor - Integrated Circuits	Period 10 of 10	14	-7%	2%	6%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Semiconductor - Memory Chips	Period 1 of 10 (Current)	4	-5%	6%	12%	Weakened										
7 Days - 11/30/23 to 12/07/23	ELECTRONICS - Semiconductor - Memory Chips	Period 2 of 10	4	-4%	1%	5%	Strengthened										
8 Days - 11/22/23 to 11/30/23	ELECTRONICS - Semiconductor - Memory Chips	Period 3 of 10	4	-1%	0%	1%	Unchanged										
6 Days - 11/16/23 to 11/22/23	ELECTRONICS - Semiconductor - Memory Chips	Period 4 of 10	4	0%	3%	3%	Unchanged										
7 Days - 11/09/23 to 11/16/23	ELECTRONICS - Semiconductor - Memory Chips	Period 5 of 10	4	2%	7%	10%	Unchanged										
7 Days - 11/02/23 to 11/09/23	ELECTRONICS - Semiconductor - Memory Chips	Period 6 of 10	4	2%	6%	10%	Strengthened										
7 Days - 10/26/23 to 11/02/23	ELECTRONICS - Semiconductor - Memory Chips	Period 7 of 10	4	-14%	2%	13%	Unchanged										
7 Days - 10/19/23 to 10/26/23	ELECTRONICS - Semiconductor - Memory Chips	Period 8 of 10	4	-13%	-6%	-3%	Weakened										
7 Days - 10/12/23 to 10/19/23	ELECTRONICS - Semiconductor - Memory Chips	Period 9 of 10	4	-14%	-43%	-3%	Weakened										
7 Days - 10/05/23 to 10/12/23	ELECTRONICS - Semiconductor - Memory Chips	Period 10 of 10	4	-2%	3%	6%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Semiconductor - Specialized	Period 1 of 10 (Current)	17	3%	12%	30%	Strengthened										
7 Days - 11/30/23 to 12/07/23	ELECTRONICS - Semiconductor - Specialized	Period 2 of 10	17	-9%	4%	20%	Strengthened										
8 Days - 11/22/23 to 11/30/23	ELECTRONICS - Semiconductor - Specialized	Period 3 of 10	17	-12%	0%	13%	Strengthened										
6 Days - 11/16/23 to 11/22/23	ELECTRONICS - Semiconductor - Specialized	Period 4 of 10	17	-10%	0%	5%	Unchanged										
7 Days - 11/09/23 to 11/16/23	ELECTRONICS - Semiconductor - Specialized	Period 5 of 10	17	-8%	10%	38%	Strengthened										
7 Days - 11/02/23 to 11/09/23	ELECTRONICS - Semiconductor - Specialized	Period 6 of 10	17	-13%	4%	8%	Strengthened										
7 Days - 10/26/23 to 11/02/23	ELECTRONICS - Semiconductor - Specialized	Period 7 of 10	17	-13%	2%	17%	Unchanged										
7 Days - 10/19/23 to 10/26/23	ELECTRONICS - Semiconductor - Specialized	Period 8 of 10	17	-24%	-7%	0%	Weakened										
7 Days - 10/12/23 to 10/19/23	ELECTRONICS - Semiconductor - Specialized	Period 9 of 10	17	-15%	-7%	2%	Weakened										
7 Days - 10/05/23 to 10/12/23	ELECTRONICS - Semiconductor - Specialized	Period 10 of 10	17	-9%	2%	18%	Strengthened										
7 Days - 12/07/23 to 12/14/23	ELECTRONICS - Semiconductor Equipment & Materials	Period 1 of 10 (Current)	23	-3%	0%	9%	21%	Strengthened									
7 Days - 11/30/23 to 12/07/23	ELECTRONICS - Semiconductor Equipment & Materials	Period 2 of 10	23	-13%	8%	10%	Unchanged										
8 Days - 11/22/23 to 11/30/23	ELECTRONICS - Semiconductor Equipment & Materials	Period 3 of 10	23	-10%	0%	10%	Unchanged										
6 Days - 11/16/23 to 11/22/23	ELECTRONICS - Semiconductor Equipment & Materials	Period 4 of 10	23	-8%	2%	11%	Strengthened										
7 Days - 11/09/23 to 11/16/23	ELECTRONICS - Semiconductor Equipment & Materials	Period 5 of 10	23	-2%	11%	22%	Strengthened										
7 Days - 11/02/23 to 11/09/23	ELECTRONICS - Semiconductor Equipment & Materials	Period 6 of 10	23	-12%	0%	12%	Strengthened										
7 Days - 10/26/23 to 11/02/23	ELECTRONICS - Semiconductor Equipment & Materials	Period 7 of 10	23	-22%	0%	12%	Weakened										
7 Days - 10/19/23 to 10/26/23	ELECTRONICS - Semiconductor Equipment & Materials	Period 8 of 10	23	-22%	0%												

## 2C. Stocks 1 Week Strongest and Weakest

What: stocks currently rated Strongest/Weakest (highest/lowest of 9 strength ratings)

Why: most interesting stocks for available capital because

- the Strongest have the least amount of overhead supply to dampen breakouts while
- the Weakest may be prone to volatility, subject to big pops from bottom-fishing and short-covering BUT ALSO to bigger and faster falls.

(Not guaranteed and not a recommendation - weak stocks in weakening sub-industries may be better shorts than high-flyers.)

STOCK DETAIL (EDUCATIONAL PURPOSES ONLY/NOT FINANCIAL ADVICE)										1 week 12/07/23 to 12/14/23						
Sub-Industry	Ticker	Company	ID1	ID2	% Chg	ID3	Status	9Weakest	EVWeek	7Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest
ELECTRONICS - Diversified Electronics	BELFA	Bel Fuse Inc Cl A	15-41-41	93%	16%	32%	1Strongest									BELFA
ELECTRONICS - Diversified Electronics	BELFB	Bel Fuse Inc Cl B	15-41-41	100%	15%	33%	1Strongest									BELFB
ELECTRONICS - Diversified Electronics	AMSC	American Superconductor Corp	15-41-41	29%	11%	63%	1Strongest									AMSC
ELECTRONICS - Diversified Electronics	WIRE	Encore Wire Corp	15-41-41	100%	10%	20%	1Strongest									WIRE
ELECTRONICS - Diversified Electronics	AVI	Acuity Brands	11-41-41	87%	9%	21%	1Strongest							AVI-->	AVI-->	AVI-->
ELECTRONICS - Diversified Electronics	NVT	nVent Electric plc	15-41-41	100%	9%	20%	1Strongest									NVT
ELECTRONICS - Diversified Electronics	APH	Amphenol Corp	15-41-41	100%	7%	20%	1Strongest									APH
ELECTRONICS - Diversified Electronics	VNT	Vontier Corporation	15-41-41	92%	3%	17%	1Strongest									VNT
ELECTRONICS - Diversified Electronics	DLB	Dolby Laboratories Inc	11-41-41	74%	1%	6%	1Strongest								DLB-->	DLB-->
ELECTRONICS - Diversified Electronics	FSV	FirstService Corporation	15-41-41	72%	-1%	9%	1Strongest									FSV
ELECTRONICS - Diversified Electronics	PLUG	Plug Power Inc	95-41-41	4%	17%	-45%	9Weakest	PLUG								
ELECTRONICS - Diversified Electronics	BW	Babcock & Wilcox	95-41-41	11%	13%	-61%	9Weakest	BW								
ELECTRONICS - Diversified Electronics	VICR	Vicor Corp	95-41-41	12%	10%	-18%	9Weakest	VICR								
ELECTRONICS - Diversified Electronics	MEI	Methode Electronics Cl A	95-41-41	5%	2%	-32%	9Weakest	MEI								
ELECTRONICS - Printed Circuit Boards	JBL	Jabil Inc	11-21-41	98%	17%	30%	1Strongest							JBL-->	JBL-->	JBL-->
ELECTRONICS - Printed Circuit Boards	FLEX	Flex Ltd	11-21-41	99%	13%	14%	1Strongest							FLEX-->	FLEX-->	FLEX-->
ELECTRONICS - Printed Circuit Boards	CLS	Celestica Inc	15-21-41	100%	9%	56%	1Strongest									CLS
ELECTRONICS - Printed Circuit Boards	TTMI	Ttm Technologies Inc	15-21-41	81%	8%	17%	1Strongest									TTMI
ELECTRONICS - Printed Circuit Boards	PLXS	Plexus Corp	15-21-41	93%	8%	14%	1Strongest									PLXS
ELECTRONICS - Printed Circuit Boards	BHE	Benchmark Electronics Inc	15-21-41	57%	8%	14%	1Strongest									BHE
ELECTRONICS - Scientific & Technical Instruments	ESE	Esco Technologies Inc	11-41-41	100%	8%	14%	1Strongest								ESE-->	ESE-->
ELECTRONICS - Scientific & Technical Instruments	BMI	Badger Meter Inc	11-41-41	90%	6%	9%	1Strongest							BMI-->	BMI-->	BMI-->
ELECTRONICS - Scientific & Technical Instruments	TRNS	Transcat Inc	15-41-41	90%	6%	15%	1Strongest									TRNS
ELECTRONICS - Scientific & Technical Instruments	CW	Curtiss Wright Corp	15-41-41	97%	2%	15%	1Strongest									CW
ELECTRONICS - Scientific & Technical Instruments	GRMN	Garmin Ltd	15-41-41	54%	1%	19%	1Strongest									GRMN
ELECTRONICS - Scientific & Technical Instruments	HURC	Hurco Companies Inc	99-41-41	3%	-3%	-10%	9Weakest	HURC	HURC	HURC						
ELECTRONICS - Semiconductor - Broad Line	AVGO	Broadcom Inc	15-31-41	100%	20%	37%	1Strongest									AVGO
ELECTRONICS - Semiconductor - Broad Line	FORM	Formfactor Inc	15-31-41	71%	11%	25%	1Strongest									FORM
ELECTRONICS - Semiconductor - Broad Line	NXPI	NXP Semiconductors NV	15-31-41	96%	10%	21%	1Strongest									NXPI
ELECTRONICS - Semiconductor - Broad Line	MTSI	MACOM Technology Solutions Holdings Inc	15-31-41	100%	9%	30%	1Strongest									MTSI
ELECTRONICS - Semiconductor - Broad Line	AMD	Advanced Micro Devices	15-31-41	83%	8%	30%	1Strongest									AMD
ELECTRONICS - Semiconductor - Broad Line	INTC	Intel Corp	15-31-41	47%	7%	32%	1Strongest									INTC
ELECTRONICS - Semiconductor - Broad Line	ASX	ASE Industrial Holding Co. Ltd	15-31-41	92%	5%	16%	1Strongest									ASX
ELECTRONICS - Semiconductor - Integrated Circuits	PLAB	Photronics Inc	15-41-41	100%	39%	43%	1Strongest									PLAB
ELECTRONICS - Semiconductor - Integrated Circuits	MRVL	Marvell Technology Inc	11-41-41	57%	14%	14%	1Strongest							MRVL-->	MRVL-->	MRVL-->
ELECTRONICS - Semiconductor - Integrated Circuits	TSM	Taiwan Semiconductor Manufacturing Corp	11-41-41	64%	4%	11%	1Strongest								TSM-->	TSM-->
ELECTRONICS - Semiconductor - Integrated Circuits	CAMT	Camtek Ltd	15-41-41	94%	0%	44%	1Strongest									CAMT
ELECTRONICS - Semiconductor - Integrated Circuits	INTT	inTEST Corp	99-41-41	41%	-8%	-32%	9Weakest	INTT	INTT	INTT						
ELECTRONICS - Semiconductor - Memory Chips	MU	Micron Technology Inc	15-49-41	77%	12%	23%	1Strongest									MU
ELECTRONICS - Semiconductor - Memory Chips	RMBS	Rambus Inc	15-49-41	100%	8%	25%	1Strongest									RMBS
ELECTRONICS - Semiconductor - Specialized	MPWR	Monolithic Power Systems	11-51-41	100%	12%	29%	1Strongest								MPWR-->	MPWR-->
ELECTRONICS - Semiconductor - Specialized	NVDA	NVIDIA Corporation	15-51-41	96%	4%	23%	1Strongest									NVDA
ELECTRONICS - Semiconductor - Specialized	MAXN	Maxeon Solar Technologies Ltd	95-51-41	3%	30%	-70%	9Weakest	MAXN								
ELECTRONICS - Semiconductor - Specialized	MX	MagnaChip Semiconductor Corp	95-51-41	2%	3%	-20%	9Weakest	MX								
ELECTRONICS - Semiconductor Equipment & Materials	ONTO	Onto Innovation Inc	15-41-41	100%	13%	41%	1Strongest									ONTO
ELECTRONICS - Semiconductor Equipment & Materials	ENTG	Entegris Inc	15-41-41	71%	12%	26%	1Strongest									ENTG
ELECTRONICS - Semiconductor Equipment & Materials	VECO	Veeco Instruments Inc	15-41-41	95%	9%	23%	1Strongest									VECO
ELECTRONICS - Semiconductor Equipment & Materials	AMAT	Applied Materials Inc	15-41-41	96%	9%	20%	1Strongest									AMAT
ELECTRONICS - Semiconductor Equipment & Materials	LRCK	Lam Research Corp	15-41-41	100%	8%	25%	1Strongest									LRCK
ELECTRONICS - Semiconductor Equipment & Materials	KLAC	KLA Corporation	15-41-41	100%	8%	27%	1Strongest									KLAC
ELECTRONICS - Semiconductor Equipment & Materials	AZTA	Azenta Inc	15-41-41	39%	7%	30%	1Strongest									AZTA
ELECTRONICS - Semiconductor Equipment & Materials	NVMI	Nova Ltd	15-41-41	89%	6%	22%	1Strongest									NVMI
ELECTRONICS - Semiconductor Equipment & Materials	SNPS	Synopsys Inc	15-41-41	96%	3%	25%	1Strongest									SNPS
ELECTRONICS - Semiconductor Equipment & Materials	ASYS	Amtech Systems Inc	95-41-41	4%	-39%	-52%	9Weakest	ASYS								

STOCK

MARKET

ORGANIZER



Strongest to Weakest stocks ratio is 45:9 (37% and 7% of total) 12/07/23 to 12/14/23.

Green Highlight: Strengthened

Red Highlight: Weakened

No Highlight: Unchanged

### 3. STRENGTH BY LOOKBACK PERIOD (with Best/Worst stocks)

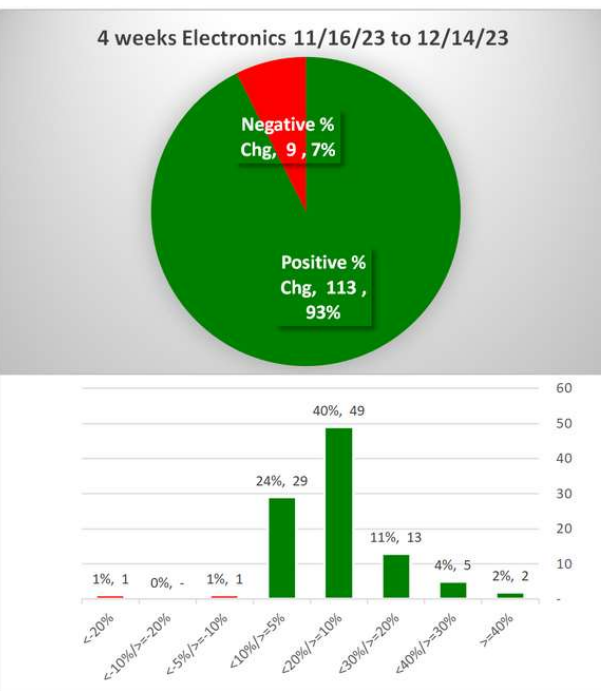
#### 3A. Lookback 3 Months



30 stocks >+20% and 7 stocks <-20% (25% and 6% of total) 09/15/23 to 12/14/23.

### 3. STRENGTH BY LOOKBACK PERIOD (with Best/Worst stocks)

#### 3B. Lookback 4 Weeks



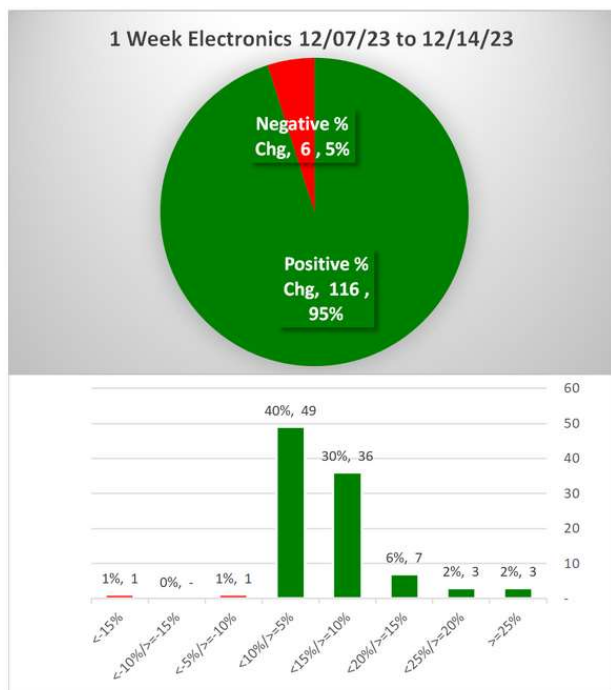
Tick	Be	E	%	Company	Sub-Industry
RUN	11/16/23	12/14/23	60%	Sunrun Inc	ELECTRONICS - Semiconductor - Specialized
SMTC	11/16/23	12/14/23	44%	Semtech Corp	ELECTRONICS - Semiconductor - Integrated Circuits
SPWR	11/16/23	12/14/23	39%	SunPower Corp	ELECTRONICS - Semiconductor - Specialized
LASR	11/16/23	12/14/23	34%	nLIGHT Inc	ELECTRONICS - Semiconductor - Broad Line
PLAB	11/16/23	12/14/23	34%	Photronics Inc	ELECTRONICS - Semiconductor - Integrated Circuits
ENPH	11/16/23	12/14/23	33%	Enphase Energy Inc	ELECTRONICS - Semiconductor Equipment & Materials
SLAB	11/16/23	12/14/23	31%	Silicon Laboratories Inc	ELECTRONICS - Semiconductor - Specialized
AMKR	11/16/23	12/14/23	28%	Amkor Technology Inc	ELECTRONICS - Semiconductor - Integrated Circuits
WOLF	11/16/23	12/14/23	27%	WolfSpeed Inc	ELECTRONICS - Semiconductor Equipment & Materials
MXL	11/16/23	12/14/23	25%	Maxlinear Inc	ELECTRONICS - Semiconductor Equipment & Materials
COHR	11/16/23	12/14/23	24%	Coherent Inc	ELECTRONICS - Scientific & Technical Instruments
ON	11/16/23	12/14/23	24%	On Semiconductor Corp	ELECTRONICS - Semiconductor - Broad Line
AMBA	11/16/23	12/14/23	22%	Amberella Inc.	ELECTRONICS - Semiconductor Equipment & Materials
SWKS	11/16/23	12/14/23	21%	Skyworks Solutions Inc	ELECTRONICS - Semiconductor - Integrated Circuits
TRMB	11/16/23	12/14/23	21%	Trimble Inc	ELECTRONICS - Scientific & Technical Instruments
AMSC	11/16/23	12/14/23	21%	American Superconductor Corp	ELECTRONICS - Diversified Electronics
ICHR	11/16/23	12/14/23	21%	Ichor Holdings Ltd	ELECTRONICS - Semiconductor Equipment & Materials
WAT	11/16/23	12/14/23	21%	Waters Corp	ELECTRONICS - Scientific & Technical Instruments
INDI	11/16/23	12/14/23	20%	Indie Semiconductor Inc	ELECTRONICS - Semiconductor - Specialized
NOVT	11/16/23	12/14/23	20%	Novanta Inc	ELECTRONICS - Scientific & Technical Instruments
BRKR	11/16/23	12/14/23	20%	Brüker Corp	ELECTRONICS - Scientific & Technical Instruments
QRVO	11/16/23	12/14/23	20%	Qorvo Inc	ELECTRONICS - Semiconductor - Broad Line
BW	11/16/23	12/14/23	20%	Babcock & Wilcox	ELECTRONICS - Diversified Electronics
KEYS	11/16/23	12/14/23	20%	Keysight Technologies Inc	ELECTRONICS - Scientific & Technical Instruments

BELFB	11/16/23	12/14/23	19%	Bel Fuse Inc CI B	ELECTRONICS - Diversified Electronics
UCTT	11/16/23	12/14/23	19%	Ultra Clean Holdings	ELECTRONICS - Semiconductor - Specialized
MPWR	11/16/23	12/14/23	19%	Monolithic Power Systems	ELECTRONICS - Semiconductor - Specialized
LSCC	11/16/23	12/14/23	18%	Lattice Semiconductor	ELECTRONICS - Semiconductor - Specialized
AEHR	11/16/23	12/14/23	18%	Aehr Test Systems	ELECTRONICS - Semiconductor Equipment & Materials
BELFA	11/16/23	12/14/23	17%	Bel Fuse Inc CI A	ELECTRONICS - Diversified Electronics
AEIS	11/16/23	12/14/23	17%	Advanced Energy Ind Inc	ELECTRONICS - Diversified Electronics
CGNX	11/16/23	12/14/23	16%	Cognex Corp	ELECTRONICS - Scientific & Technical Instruments
TER	11/16/23	12/14/23	16%	Teradyne Inc	ELECTRONICS - Semiconductor Equipment & Materials
BE	11/16/23	12/14/23	16%	Bloom Energy Corporation	ELECTRONICS - Diversified Electronics
CSIQ	11/16/23	12/14/23	16%	Canadian Solar Inc	ELECTRONICS - Semiconductor - Specialized
ONTO	11/16/23	12/14/23	16%	Onto Innovation Inc	ELECTRONICS - Semiconductor Equipment & Materials
ITRI	11/16/23	12/14/23	16%	Itron Inc	ELECTRONICS - Scientific & Technical Instruments
NXPI	11/16/23	12/14/23	16%	NXP Semiconductors NV	ELECTRONICS - Semiconductor - Broad Line
TRNS	11/16/23	12/14/23	16%	Transcat Inc	ELECTRONICS - Scientific & Technical Instruments
ENTG	11/16/23	12/14/23	16%	Entegris Inc	ELECTRONICS - Semiconductor Equipment & Materials
AVGO	11/16/23	12/14/23	15%	Broadcom Inc	ELECTRONICS - Semiconductor - Broad Line
AOSL	11/16/23	12/14/23	15%	Alpha & Omega Semicond Ltd	ELECTRONICS - Semiconductor - Specialized
AMD	11/16/23	12/14/23	15%	Advanced Micro Devices	ELECTRONICS - Semiconductor - Broad Line
IVAC	11/16/23	12/14/23	15%	Intevac Inc	ELECTRONICS - Diversified Electronics
SGH	11/16/23	12/14/23	15%	SMART Global Holdings	ELECTRONICS - Semiconductor - Memory Chips
PLUG	11/16/23	12/14/23	15%	Plug Power Inc	ELECTRONICS - Diversified Electronics
DIOD	11/16/23	12/14/23	15%	Diodes Inc	ELECTRONICS - Semiconductor - Integrated Circuits
MVIS	11/16/23	12/14/23	14%	Microvision Inc	ELECTRONICS - Diversified Electronics
AZTA	11/16/23	12/14/23	14%	Azenta Inc	ELECTRONICS - Semiconductor Equipment & Materials
MTSI	11/16/23	12/14/23	14%	MACOM Technology Solutions Holdi	ELECTRONICS - Semiconductor - Broad Line
POWI	11/16/23	12/14/23	13%	Power Integrations Inc	ELECTRONICS - Semiconductor - Integrated Circuits
KLIC	11/16/23	12/14/23	13%	Kulicke & Soffa Ind	ELECTRONICS - Semiconductor Equipment & Materials
MCHP	11/16/23	12/14/23	13%	Microchip Technology Inc	ELECTRONICS - Semiconductor - Specialized
TSEM	11/16/23	12/14/23	13%	Tower Semiconductor Ltd	ELECTRONICS - Semiconductor - Integrated Circuits
ADEA	11/16/23	12/14/23	13%	Adela Inc.	ELECTRONICS - Semiconductor Equipment & Materials
NVT	11/16/23	12/14/23	13%	nVent Electric plc	ELECTRONICS - Diversified Electronics
AYI	11/16/23	12/14/23	12%	Acuity Brands	ELECTRONICS - Diversified Electronics
IPGP	11/16/23	12/14/23	12%	Ipg Photonics Corp	ELECTRONICS - Semiconductor - Integrated Circuits
CRUS	11/16/23	12/14/23	12%	Cirrus Logic Inc	ELECTRONICS - Semiconductor - Specialized
ST	11/16/23	12/14/23	12%	Sensata Technologies Holding N.V.	ELECTRONICS - Scientific & Technical Instruments
PI	11/16/23	12/14/23	12%	Impinj Inc	ELECTRONICS - Diversified Electronics
ADI	11/16/23	12/14/23	11%	Analog Devices Inc	ELECTRONICS - Semiconductor - Integrated Circuits
NVMI	11/16/23	12/14/23	11%	Nova Ltd	ELECTRONICS - Semiconductor Equipment & Materials
TXN	11/16/23	12/14/23	11%	Texas Instruments Inc	ELECTRONICS - Semiconductor - Broad Line
VICR	11/16/23	12/14/23	11%	Vicor Corp	ELECTRONICS - Diversified Electronics
FARO	11/16/23	12/14/23	11%	Faro Technologies Inc	ELECTRONICS - Scientific & Technical Instruments
APH	11/16/23	12/14/23	10%	Amphenol Corp	ELECTRONICS - Diversified Electronics
SITM	11/16/23	12/14/23	10%	SiTime Corp	ELECTRONICS - Semiconductor - Broad Line
ATOM	11/16/23	12/14/23	10%	Atomera Incorporated	ELECTRONICS - Semiconductor Equipment & Materials
ASYS	11/16/23	12/14/23	-45%	Amtech Systems Inc	ELECTRONICS - Semiconductor Equipment & Materials

69 stocks >+10% and 1 stock <-10% (57% and 1% of total) 11/16/23 to 12/14/23.

### 3. STRENGTH BY LOOKBACK PERIOD (with Best/Worst stocks)

#### 3C. Lookback 1 Week



BELFA	12/07/23	12/14/23	16%	Bel Fuse Inc CI A	ELECTRONICS - Diversified Electronics
BELFB	12/07/23	12/14/23	15%	Bel Fuse Inc CI B	ELECTRONICS - Diversified Electronics
ALGM	12/07/23	12/14/23	15%	Allegro MicroSystems Inc	ELECTRONICS - Semiconductor - Integrated Circuits
ACLS	12/07/23	12/14/23	14%	Axcelis Technologies Inc	ELECTRONICS - Semiconductor Equipment & Materials
TER	12/07/23	12/14/23	14%	Teradyne Inc	ELECTRONICS - Semiconductor Equipment & Materials
MXL	12/07/23	12/14/23	14%	Maxlinear Inc	ELECTRONICS - Semiconductor Equipment & Materials
ON	12/07/23	12/14/23	14%	On Semiconductor Corp	ELECTRONICS - Semiconductor - Broad Line
MRVL	12/07/23	12/14/23	14%	Marvell Technology Inc	ELECTRONICS - Semiconductor - Integrated Circuits
ADEA	12/07/23	12/14/23	14%	Adela Inc.	ELECTRONICS - Semiconductor Equipment & Materials
LSCC	12/07/23	12/14/23	13%	Lattice Semiconductor	ELECTRONICS - Semiconductor - Specialized
BW	12/07/23	12/14/23	13%	Babcock & Wilcox	ELECTRONICS - Diversified Electronics
ONTO	12/07/23	12/14/23	13%	Onto Innovation Inc	ELECTRONICS - Semiconductor Equipment & Materials
FLEX	12/07/23	12/14/23	13%	Flex Ltd	ELECTRONICS - Printed Circuit Boards
AEIS	12/07/23	12/14/23	13%	Advanced Energy Ind Inc	ELECTRONICS - Diversified Electronics
AOSL	12/07/23	12/14/23	12%	Alpha & Omega Semicond Ltd	ELECTRONICS - Semiconductor - Specialized
ENTG	12/07/23	12/14/23	12%	Entegris Inc	ELECTRONICS - Semiconductor Equipment & Materials
QRVO	12/07/23	12/14/23	12%	Qorvo Inc	ELECTRONICS - Semiconductor - Broad Line
ENPH	12/07/23	12/14/23	12%	Enphase Energy Inc	ELECTRONICS - Semiconductor Equipment & Materials
MPWR	12/07/23	12/14/23	12%	Monolithic Power Systems	ELECTRONICS - Semiconductor - Specialized
AMBA	12/07/23	12/14/23	12%	Ambarella Inc.	ELECTRONICS - Semiconductor Equipment & Materials
KEYS	12/07/23	12/14/23	12%	Keysight Technologies Inc	ELECTRONICS - Scientific & Technical Instruments
CGNX	12/07/23	12/14/23	12%	Cognex Corp	ELECTRONICS - Scientific & Technical Instruments
MU	12/07/23	12/14/23	12%	Micron Technology Inc	ELECTRONICS - Semiconductor - Memory Chips
SLAB	12/07/23	12/14/23	12%	Silicon Laboratories Inc	ELECTRONICS - Semiconductor - Specialized
LASR	12/07/23	12/14/23	11%	nLIGHT Inc	ELECTRONICS - Semiconductor - Broad Line
ACMR	12/07/23	12/14/23	11%	ACM Research Inc	ELECTRONICS - Semiconductor Equipment & Materials
CEVA	12/07/23	12/14/23	11%	Ceva Inc	ELECTRONICS - Semiconductor - Specialized
WOLF	12/07/23	12/14/23	11%	WolfSpeed Inc	ELECTRONICS - Semiconductor Equipment & Materials
DIOD	12/07/23	12/14/23	11%	Diodes Inc	ELECTRONICS - Semiconductor - Integrated Circuits
SWKS	12/07/23	12/14/23	11%	Skyworks Solutions Inc	ELECTRONICS - Semiconductor - Integrated Circuits
POWI	12/07/23	12/14/23	11%	Power Integrations Inc	ELECTRONICS - Semiconductor - Integrated Circuits
TRMB	12/07/23	12/14/23	11%	Trimble Inc	ELECTRONICS - Scientific & Technical Instruments
FORM	12/07/23	12/14/23	11%	Formfactor Inc	ELECTRONICS - Semiconductor - Broad Line
AMSC	12/07/23	12/14/23	11%	American Superconductor Corp	ELECTRONICS - Diversified Electronics
WIRE	12/07/23	12/14/23	10%	Encore Wire Corp	ELECTRONICS - Diversified Electronics
NOVT	12/07/23	12/14/23	10%	Novanta Inc	ELECTRONICS - Scientific & Technical Instruments
VICR	12/07/23	12/14/23	10%	Vicor Corp	ELECTRONICS - Diversified Electronics
ASYS	12/07/23	12/14/23	-39%	Amtech Systems Inc	ELECTRONICS - Semiconductor Equipment & Materials

49 stocks > +10% and 1 stock < -10% (40% and 1% of total) 12/07/23 to 12/14/23.