



Concept to Reality

Bring Your Designs to Life with our Passive Components



More than just Resistors - yes we're the world leader in thick film resistors, but our product line is broad and growing every day, including:

- Shunt/Current Sense Resistors
- Wide Terminal Resistors
- High Voltage Resistors
- Thin Film Chip Resistors
- Surge Resistors

Passive Component Solutions - our engineering group will work with your design team to develop the passive component solution you need. Many of the hundreds of new products we've introduced in recent years are the result of such collaboration.

Award Winning Passive Supplier - we're the industry's most recognized and awarded supplier for achieving the highest product quality, on-time delivery and responsive customer service.

To make your design a reality. visit KOASpeer.com





ISO 9001:2015 IATF16949:2016

JANUARY

Su	Мо	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

APRIL

Su	Мо	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
20						

JULY

Su	Мо	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

OCTOBER

Su	Мо	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

FEBRUARY

Su	Мо	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

MAY

Su	Мо	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

AUGUST

Su	Мо	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

NOVEMBER

NOVENIDEN									
Su	Мо	Tu	We	Th	Fr	Sa			
			1	2	3	4			
5	6	7	8	9	10	11			
12	13	14	15	16	17	18			
19	20	21	22	23	24	25			
26	27	28	29	30					

MARCH

Su	Мо	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

Su	Мо	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

SEPTEMBER

Su	Мо	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

DECEMBER

DECEMBER								
Su	Мо	Tu	We	Th	Fr	Sa		
					1	2		
3	4	5	6	7	8	9		
10	11	12	13	14	15	16		
17	18	19	20	21	22	23		
24	25	26	27	28	29	30		
31								







DECEMBER

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 4
 5
 6
 7
 8
 9
 10

 11
 12
 13
 14
 15
 16
 17

 18
 19
 20
 21
 22
 23
 24

 25
 26
 27
 28
 29
 30
 31

JANUARY 2023

FEBRUARY

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 5
 6
 7
 8
 9
 10
 11

 12
 13
 14
 15
 16
 17
 18

 19
 20
 21
 22
 23
 24
 25

SUN	MON	TUE	WED	THU	FRI	SAT
New Year's Day	2	3	4	5	6	7
wk1/52	0	1.0	1 1	12	12	1.4
8 wk2/51	9	10	11	12	13	14
15 wk3/50	16 Martin Luther King, Jr. Day	17	18	19	20	21
22 wk4/49	23	24	25	26	27	28
29 wk5/48	30	31	1	2	3	4









Amish Community

Clymer, New York

Settled by Amish from Geauga County, Ohio in the 1970s, this is one of the most significant Amish communities in Western New York.

9 10 11 12 13 14 **15** 16 17 18 19 20 **21 22** 23 24 25 26 27 **28 29** 30 31

FEBRUARY 2023

SUN	MON	TUE	WED	THU	FRI	SAT
29 wk5/48	30	31	1	2 Groundhog Day	3	4
5 wk6/47	6	7	8	9	10	11
12 wk7/46	13	14 Valentine's Day	15	16	17	18
19 wk8/45	20 Presidents' Day	21	22 Ash Wednesday	23	24	25
26 wk9/44	27	28	1	2	3	4









FEBRUARY

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 1
 2
 3
 4

 5
 6
 7
 8
 9
 10
 11

 12
 13
 14
 15
 16
 17
 18

 19
 20
 21
 22
 23
 24
 25

 26
 27
 28

MARCH 2023

APKIL
Su Mo Tu We Th Fr Sa
1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30

SUN	MON	TUE	WED	THU	FRI	SAT
26 wk9/44	27	28	1	2	3	4
5 wk10/43	6	7	8	9	10	11
12 Daylight Saving Day	13	14	15	16	17 St. Patrick's Day	18
19 wk12/41	20	21	22	23	24	25
26 wk13/40	27	28	29	30	31	1







 20 21 22 23 24 **25** 27 28 29 30 31

APRIL 2023

22 23 24 25 26 **27**

29 30 31

SUN	MON	TUE	WED	THU	FRI	SAT
26	27	28	29	30	31	1
wk13/40						
2 Palm Sunday	3	4	5	6	Good Friday	8
wk14/39						
9 Easter	10	11	12	13	14	15
16	17	18 Tax Day	19	20	21	22
wk16/37	24	25	26	27	20	20
23	24	25	26	27	28	29
wk17/36						









APRII

10 11 12 13 14 15 **16** 17 18 19 20 21 **22 23** 24 25 26 27 28 **29**

MAY 2023

25 26 27 28 29 30

SUN	MON	TUE	WED	THU	FRI	SAT
30 wk18/35	1	2	3	4	5	6
7 wk19/34	8	9	10	11	12	13
14 Mother's Day	15	16	17	18	19	20
21 wk21/32	22	23	24	25	26	27
28 wk22/31	29 Memorial Day	30	31	1	2	3









MAY

Su Mo Tu We Th Fr Sa **7** 8 9 10 11 12 **13 21** 22 23 24 25 26 **27 28** 29 30 31

JUNE 2023

JULY

30 31

SUN	MON	TUE	WED	THU	FRI	SAT
28 wk22/31	29	30	31	1	2	3
4 wk23/30	5	6	7	8	9	10
11 wk24/29	12	13	14 Flag Day	15	16	17
18 Father's Day	19 Juneteenth	20	21	22	23	24
25 wk26/27	26	27	28	29	30	1









JUNE

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 4
 5
 6
 7
 8
 9
 10

 11
 12
 13
 14
 15
 16
 17

 18
 19
 20
 21
 22
 23
 24

 25
 26
 27
 28
 29
 30

JULY 2023

AUGUST

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 6
 7
 8
 9
 10
 11
 12

 13
 14
 15
 16
 17
 18
 19

 20
 21
 22
 23
 24
 25
 26

 27
 28
 29
 30
 31
 4

SUN	MON	TUE	WED	THU	FRI	SAT
25 wk26/27	26	27	28	29	30	1
2 wk27/26	3	Independence Day	5	6	7	8
9 wk28/25	10	11	12	13	14	15
16 wk29/24	17	18	19	20	21	22
23 wk30/23	24	25	26	27	28	29
30	31		70.3	B SERVICE:		

wk31/22









JULY

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 <

AUGUST 2023

Su Mo Tu We Th Fr S 1 2 3 4 5 6 7 8 5 10 11 12 13 14 15 1

SUN	MON	TUE	WED	THU	FRI	SAT
30 wk31/22	31	1	2	3	4	5
6 wk32/21	7	8	9	10	11	12
13 wk33/20	14	15	16	17	18	19
20 wk34/19	21	22	23	24	25	26
27 wk35/18	28	29	30	31	1	2









AUGUST

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 1
 2
 3
 4
 5

 6
 7
 8
 9
 10
 11
 12

 13
 14
 15
 16
 17
 18
 19

 20
 21
 22
 23
 24
 25
 26

 27
 28
 29
 30
 31

SEPTEMBER 2023

OCTOBER

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 1
 2
 3
 4
 5
 6
 7

 8
 9
 10
 11
 12
 13
 14

 15
 16
 17
 18
 19
 20
 22

 22
 23
 24
 25
 26
 27
 26

SUN	MON	TUE	WED	THU	FRI	SAT
27 wk35/18	28	29	30	31	1	2
3 wk36/17	4 Labor Day	5	6	7	8	9
10 wk37/16	11	12	13	14	15	16
17 wk38/15	18	19	20	21	22	23
24 wk39/14	25	26	27	28	29	30









10 11 12 13 14 15 **16 17** 18 19 20 21 22 **23 24** 25 26 27 28 29 **30**

OCTOBER 2023

SUN	MON	TUE	WED	THU	FRI	SAT
1 wk40/13	2	3	4	5	6	7
Wk41/12	9 Columbus Day	10	11	12	13	14
15 wk42/11	16	17	18	19	20	21
22 wk43/10	23	24	25	26	27	28
29 wk44/9	30	31 Halloween	1	2	3	4









OCTORFR

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 1
 2
 3
 4
 5
 6
 7

 8
 9
 10
 11
 12
 13
 14

 15
 16
 17
 18
 19
 20
 21

 22
 23
 24
 25
 26
 27
 28

NOVEMBER 2023

Su Mo Tu We Th Fr Si

1 2

3 4 5 6 7 8 9

10 11 12 13 14 15 16

17 18 19 20 21 22 23

24 25 26 27 28 29 36

SUN	MON	TUE	WED	THU	FRI	SAT
29 wk449	30	31	1	2	3	4
5 Daylight Savings Ends	6	7 Election Day	8	9	10	11 Veterans Day
12 wk46/7	13	14	15	16	17	18
19 wk47/6	20	21	22	23 Thanksgiving	24	25
26 wk48/5	27	28	29	30	1	2









NOVEMBER

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 1
 2
 3
 4

 5
 6
 7
 8
 9
 10
 11

 12
 13
 14
 15
 16
 17
 18

 19
 20
 21
 22
 23
 24
 25

 26
 27
 28
 29
 30

DECEMBER 2023

JANUARY 2024

 Su
 Mo
 Tu
 We
 Th
 Fr
 Sa

 1
 2
 3
 4
 5
 6

 7
 8
 9
 10
 11
 12
 13

 14
 15
 16
 17
 18
 19
 20

 21
 22
 23
 24
 25
 26
 27

SUN	MON	TUE	WED	THU	FRI	SAT
26 wk48/5	27	28	29	30	1	2
3 wk49/4	4	5	6	7	8	9
10 wk50/3	11	12	13	14	15	16
17 wk51/2	18	19	20	21	22	23
24 Christmas Eve	25 Christmas Day	26	27	28	29	30

31 New Years Eve









199 Bolivar Drive Bradford, PA 16701 P: 814.362.5536 F: 814.362.8883

www.KOASpeer.com

JANUARY

Su	Мо	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

APRIL

Su	Мо	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

JULY

Su	Мо	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

OCTOBER

Su	Мо	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

FEBRUARY

Su	Мо	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29		

MAY

Su	Мо	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

AUGUST

Su	Мо	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

NOVEMBER

Su	Мо	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MARCH

Su	Мо	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

JUNE

		_				
Su	Мо	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

SEPTEMBER

Su	Мо	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DECEMBER

Su	Мо	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				