

# 2022 ESD

Solution Innovator

ESD Transceiver EMI Filter



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## TVS

	Part No.	Package	Capacitance (pF, Typical)	V <sub>SV</sub> (V)	V <sub>RWM</sub> (Reverse Stand-off Voltage)	Channel #	PINS	Operation Voltage (V)
1	AZ1013-02N	SOT143-4L	2.8	4.5	3.3	2	4	3.3
2	AZ1013-04C	SC70-5L	1.8	4.5	3.3	4	5	3.3
3	AZ1013-04F	DFN2510P10E	2	4.5	3.3	4	10	3.3
4	AZ1015-02N	SOT143-4L	2	6.1	5	2	4	5
5	AZ1015-02S	SOT23-5L	2	6.1	5	2	5	5
6	AZ1015-04S	SOT23-6L	2	6.1	5	4	6	5
7	AZ101S-02F	DFN1210P6X	0.18	4.5	1.5	2	6	1.5
8	AZ1023-02F	DFN1210P6X	0.18	4.5	3.3	2	6	3.3
9	AZ1023-04F	DFN2510P10E	0.18	4.5	3.3	4	10	3.3
10	AZ1043-04F	DFN2510P10E	0.45	4.5	3.3	4	10	3.3
11	AZ1043-08F	DFN3810P9E	0.5	4.5	3.3	8	9	3.3
12	AZ1045-02F	DFN1210P6X	0.5	6	5	2	6	5
13	AZ1045-04F	DFN2510P10E	0.5	6	5	4	10	5
14	AZ1045-04GU	MSOP-10L	0.55	6	5	4	10	5
15	AZ1045-04SU	SOT23-6L	0.55	6	5	4	6	5
16	AZ1045-08F	DFN3810P9E	0.5	6	5	8	9	5
17	AZ1065-06F	DFN4120P10E	0.27	6	5	6	10	5
18	AZ1065-06Q	MSOP-8L	0.27	6	5	6	8	5
19	AZ1083-08F	DFN5515P18E	0.1	4.5	3.3	8	18	3.3
20	AZ108S-06F	DFN3310P10E	0.35	4.5	1.5	6	10	1.5
21	AZ111S-08F	DFN3810P9E	0.1	4.5	1.5	8	9	1.5
22	AZ1123-04F	DFN2510P10E	0.2	5	3.3	4	10	3.3
23	AZ1135-04S	SOT23-6L	1.7	6	5	4	6	5
24	AZ1143-04F	DFN2510P10E	0.45	4.5	3.3	4	10	3.3
25	AZ1165-06Q	MSOP-8L	0.45	6	5	6	8	5
26	AZ1213-04F	DFN2510P10E	2.1	5	3.3	4	10	3.3
27	AZ1235-04S	SOT23-6L	1.7	6	5	4	6	5
28	AZ1243-04F	DFN2510P10E	0.5	4.5	3.3	4	10	3.3
29	AZ128S-08F	DFN5515P14E	0.5	4.5	1.5	8	14	1.5
30	AZ1345-04F	DFN2510P8E	0.35	6	5	4	8	5
31	AZ1365-06F	DFN4120P10E	0.35	4.5	2.2	6	10	3.3
32	AZ1513-04S	SOT23-6L	2	4.5	3.3	4	6	3.3

ESD Clamping Voltage (V) @8kV	Surge Clamping Voltage (V) @5A	ESD Air (kV)	ESD Contact (kV)	EFT IO (A)	Surge I <sub>pp</sub> (A)	Size (L) mm	Size (W) mm	Size (H) mm
9	6.5	30	30	80	12	2.92	1.30	1.06
7.8	5.7	30	30	80	15	2.05	1.25	1.00
7.8	5.2	30	25	80	15	2.50	1.00	0.50
13.5	8	24	16	40	13	2.92	1.30	1.06
13	7.8	24	16	40	13	2.92	1.60	1.25
13	7.8	24	16	40	13	2.92	1.60	1.45
12	N/A	15	8	N/A	2.5	1.20	1.00	0.45
13	N/A	15	8	20	3	1.20	1.00	0.45
11	N/A	15	8	20	3	2.50	1.00	0.50
10.5	N/A	15	11	N/A	4	2.50	1.00	0.50
9	N/A	15	12	N/A	5	3.80	1.00	0.50
12	N/A	15	10	N/A	3.5	1.20	1.00	0.45
12	N/A	15	10	N/A	3.5	2.50	1.00	0.50
12.5	N/A	19	12	N/A	N/A	3.00	3.00	1.00
12	N/A	19	12	N/A	4.7	2.92	1.60	1.45
10.5	N/A	15	15	N/A	5	3.80	1.00	0.50
13	N/A	15	8	N/A	N/A	4.10	2.00	0.50
13	N/A	15	8	N/A	N/A	3.00	3.00	1.00
16.5	N/A	15	8	N/A	3	5.50	1.50	0.50
7	N/A	15	10	N/A	N/A	3.30	1.00	0.50
15	N/A	15	8	N/A	3	3.80	1.00	0.50
10	9	15	12	N/A	6.5	2.50	1.00	0.50
7.2	5.8	30	30	80	17	2.92	1.60	1.25
9	N/A	18	16	40	6	2.50	1.00	0.50
9.5	N/A	15	10	N/A	N/A	3.00	3.00	1.00
6.5	5.2	30	30	80	20	2.50	1.00	0.50
7.5	6	30	30	80	16	2.92	1.60	1.25
8.5	5.5	27	25	50	12	2.50	1.00	0.50
5.5	N/A	18	16	40	6.5	5.50	1.50	0.50
12	N/A	15	10	N/A	N/A	2.50	1.00	0.50
8.5	N/A	15	10	N/A	4	4.10	2.00	0.50
7.5	5.8	30	30	80	30	2.92	1.60	1.25

**TVS**

	Part No.	Package	Capacitance (pF, Typical)	V <sub>SV</sub> (V)	V <sub>RWM</sub> (Reverse Stand-off Voltage)	Channel #	PINS	Operation Voltage (V)
33	AZ1515-04S	SOT23-6L	1.8	6	5	4	6	5
34	AZ1575-04S	SOT23-6L	1.8	5.8	5	4	6	5
35	AZ1603-01L	SOD-323	2	4	3.3	1	2	3.3
36	AZ1603-02S	SOT23-6L	0.9	4	3.3	4	6	3.3
37	AZ1613-01L	SOD-323	2	4.6	3.3	1	2	3.3
38	AZ1615-01L	SOD-323	1.9	6	5	1	2	5
39	AZ1743-04F	DFN1308P5Z	0.4	4.5	3.3	4	5	3.3
40	AZ176S-04F	DFN2510P10E	0.29	5	1.5	4	10	1.5
41	AZ1943-04F	DFN2010P5E	0.29	4.5	3.3	4	5	3.3
42	AZ2013-05R	SOT-563	26	4.5	3.3	5	6	3.3
43	AZ2015-01H	SOD-523	20	6.1	5	1	2	5
44	AZ2015-02S	SOT23-3L	55	6.1	5	2	3	5
45	AZ2015-05R	SOT-563	16	6.5	5	5	6	5
46	AZ2025-01H	SOD-523	11.5	6.1	5	1	2	5
47	AZ2025-02S	SOT23-3L	12	6.1	5	2	3	5
48	AZ2025-04R	SOT-563	5.5	6	5	4	6	5
49	AZ2025-04S	SOT23-5L	12	6.1	5	4	5	5
50	AZ2113-04F	DFN2116P8X	36	4.5	3.3	4	8	3.3
51	AZ2113-08F	DFN2510P10E	28	4.5	3.3	8	10	3.3
52	AZ2115-04C	SC70-5L	13	6	5	4	5	5
53	AZ2115-04SN1	SOT23-6L	13	6	5	4	6	5
54	AZ2115-05C	SC70-6L	13	6	5	5	6	5
55	AZ2115-05F	QFN1616P6E	13	6	5	5	6	5
56	AZ2115-05S	SOT23-6L	13	6	5	5	6	5
57	AZ2215-01L	SOD-323	25	6.1	5	1	2	5
58	AZ2225-01L	SOD-323	14	6.1	5	1	2	5
59	AZ3003-01G	SOD123	1500	4	3.3	1	2	3.3
60	AZ3005-01G	SOD123	1300	6	5	1	2	5
61	AZ3028-04P	SO-8	5.5	3	2.8	4	8	2.8
62	AZ3028-08P	SO-8	3	3	2.8	8	8	2.8
63	AZ3103-01F	DFN1610P2E	465	4	3.3	1	2	3.3
64	AZ3105-01F	DFN1610P2E	250	6	5	1	2	5

ESD Clamping Voltage (V) @8kV	Surge Clamping Voltage (V) @5A	ESD Air (kV)	ESD Contact (kV)	EFT IO (A)	Surge I <sub>pp</sub> (A)	Size (L) mm	Size (W) mm	Size (H) mm
9	7.3	30	30	80	30	2.92	1.60	1.25
10	8	30	30	80	20	2.90	1.60	1.10
12	9	30	30	80	20	1.70	1.30	0.90
10	7	30	30	80	18	2.92	1.60	1.25
8	6.5	30	30	80	21	1.70	1.30	0.90
9.5	7.5	30	30	80	21	1.70	1.30	0.90
9.5	N/A	15	11	N/A	4	1.30	0.80	0.40
4.3	N/A	15	14	30	4	2.50	1.00	0.50
9.5	7.5	16	14	30	5	2.00	1.00	0.50
6	N/A	18	18	60	N/A	1.60	1.20	0.56
9	7	23	15	40	8.5	1.20	0.80	0.64
9	6	30	22	80	16	2.90	1.30	1.02
8.5	N/A	15	12	30	N/A	1.60	1.20	0.56
10.5	7	22	15	40	8.5	1.20	0.80	0.64
10.5	7	22	15	40	8.5	2.90	1.30	1.02
12	N/A	17	12	40	N/A	1.60	1.20	0.56
10.5	7	22	15	40	8.5	2.92	1.60	1.20
6.5	6	20	20	60	5	2.10	1.60	0.45
7	5	15	13	40	6	2.50	1.00	0.50
7.8	6.5	16	10	35	6	2.05	1.25	1.00
8.5	6.5	16	10	35	6	2.92	1.60	1.45
7.8	6.8	16	10	35	6	2.05	1.25	1.00
8.5	6.8	16	10	35	6	1.60	1.60	0.55
8.5	6.8	16	10	35	6	2.92	1.60	1.45
9	7	25	15	40	8.5	1.70	1.30	0.90
10.5	7	22	15	40	8.5	1.70	1.30	0.90
8	7	30	30	80	65	2.70	1.60	1.15
8.5	7.5	30	30	80	60	2.70	1.60	1.15
N/A	10	30	30	60	30	4.90	3.90	1.55
N/A	12	30	30	80	30	4.90	3.90	1.55
4.8	5.3	30	30	80	80	1.60	1.00	0.50
6	6.4	30	30	80	80	1.60	1.00	0.50

## TVS

	Part No.	Package	Capacitance (pF, Typical)	V <sub>SV</sub> (V)	V <sub>RWM</sub> (Reverse Stand-off Voltage)	Channel #	PINS	Operation Voltage (V)
65	AZ3105-04P	SO-8	4	6	5	4	8	5
66	AZ3125-08F	DFN3020P10E	1.7	3	2.5	4	10	2.5
67	AZ3133-04F	DFN2525P10E	3	3.9	3.3	4	10	3.3
68	AZ3133-08F	DFN3020P10E	3.6	3.9	3.3	4	10	3.3
69	AZ3205-01F	DFN1610P2E	140	6.0	5	1	2	5
70	AZ3225-08F	DFN3020P10E	1.2	3	2.5	4	10	2.5
71	AZ3233-02F	DFN2525P10E	10	3.9	3.3	2	10	3.3
72	AZ3505-01F	DFN1610P2E	310	5	4.5	1	2	4.5
73	AZ3603-01F	DFN1610P2E	280	3.7	3.3	1	2	3.3
74	AZ3705-01F	DFN2020P3E	430	5	4.5	1	3	4.5
75	AZ4007-01H	SOD-523	60	8.5	7	1	2	7
76	AZ4007-01L	SOD-323	60	8.5	7	1	2	7
77	AZ4007-02S	SOT23-3L	60	8.5	7	2	3	7
78	AZ4008-01F	DFN1006P2E	210	8	7.9	1	2	7.9
79	AZ4008-01G	SOD123	1100	9	8	1	2	8
80	AZ4010-01G	SOD123	750	11.2	10	1	2	10
81	AZ4012-01F	DFN1006P2X	40	13.5	12	1	2	12
82	AZ4012-01G	SOD123	290	14.4	12	1	2	12
83	AZ4012-01H	SOD-523	40	13.5	12	1	2	12
84	AZ4012-01L	SOD-323	40	13.5	12	1	2	12
85	AZ4012-02S	SOT23-3L	40	13.5	12	2	3	12
86	AZ4015-01G	SOD123	675	16.7	15	1	2	15
87	AZ4018-01G	SOD123	620	20	18	1	2	18
88	AZ4020-01F	DFN2020P2E	650	22.8	20	1	2	20
89	AZ4020-01G	SOD123	580	22.2	20	1	2	20
90	AZ4024-01F	DFN1006P2X	42	26.7	24	1	2	24
91	AZ4024-01G	SOD123	450	26.7	24	1	2	24
92	AZ4024-01H	SOD-523	60	26.7	24	1	2	24
93	AZ4024-01L	SOD-323	60	26.7	24	1	2	24
94	AZ4024-02S	SOT23-3L	20	26.7	24	2	3	24
95	AZ4028-01G	SOD123	300	31.1	28	1	2	28
96	AZ4030-01G	SOD123	480	33.3	30	1	2	30

ESD Clamping Voltage (V) @8kV	Surge Clamping Voltage (V) @5A	ESD Air (kV)	ESD Contact (kV)	EFT IO (A)	Surge I <sub>pp</sub> (A)	Size (L) mm	Size (W) mm	Size (H) mm
9	7.3	20	20	80	30	4.90	3.90	1.55
8	6.5	30	30	80	45	3.00	2.00	0.55
11.5	12	30	30	80	25	2.50	2.50	0.52
10.5	9	30	30	80	45	3.00	2.00	0.55
6.0	5.6	30	30	80	100	1.60	1.00	0.50
8	7	30	30	80	45	3.00	2.00	0.55
N/A	9.2	30	30	80	50	2.50	2.50	0.52
5.5	5	30	30	80	200	1.60	1.00	0.50
4.7	5	30	30	80	180	1.60	1.00	0.50
5.5	5	30	30	80	250	2.00	2.00	0.55
12.5	11.7	30	25	80	5.5	1.20	0.80	0.64
12.5	12	30	25	80	5.5	1.70	1.30	0.90
12.5	11.5	30	25	80	6	2.90	1.30	1.02
10	9.2	30	30	80	25	1.0	0.6	0.5
12	10.5	30	30	80	60	2.70	1.60	1.15
13.5	13	30	30	80	53	2.70	1.60	1.15
20	N/A	24	18	60	N/A	1.00	0.60	0.45
17.5	16.5	30	30	80	20	2.70	1.60	1.15
20	N/A	26	20	60	N/A	1.20	0.80	0.64
22	N/A	18	18	60	N/A	1.70	1.30	0.90
23	N/A	26	20	60	N/A	2.90	1.30	1.02
19.5	18	30	30	80	40	2.70	1.60	1.15
25	22	30	30	80	34	2.70	1.60	1.15
25	24	30	30	N/A	58	2.00	2.00	0.50
26	23.5	30	30	80	30	2.70	1.60	1.15
42	N/A	25	25	60	N/A	1.00	0.60	0.48
32	30	30	30	80	25	2.70	1.60	1.15
37.5	41.5	25	25	70	5	1.20	0.80	0.64
38	42.5	30	30	80	5	1.70	1.30	0.90
43.5	35	15	15	60	5.5	2.90	1.30	1.02
36	34	30	30	80	22	2.70	1.60	1.15
40	37	30	30	80	20	2.70	1.60	1.15

**TVS**

	Part No.	Package	Capacitance (pF, Typical)	V <sub>5V</sub> (V)	V <sub>RWM</sub> (Reverse Stand-off Voltage)	Channel #	PINS	Operation Voltage (V)
97	AZ4036-01G	SOD123	420	40	36	1	2	36
98	AZ4040-01G	SOD123	200	44.2	40	1	2	40
99	AZ4045-01G	SOD123	240	50	45	1	2	45
100	AZ4107-01F	DFN1006P2X	160	8	7	1	2	7
101	AZ4112-01G	SOD123	780	14	12	1	2	12
102	AZ4115-01F	DFN1006P2X	65	16.7	15	1	2	15
103	AZ4120-01F	DFN1006P2X	52	22.2	20	1	2	20
104	AZ4124-01F	DFN1006P2E	72	25.5	24	1	2	24
105	AZ4208-01F	DFN1006P2X	30	9	8	1	2	8
106	AZ4212-01F	DFN1006P2X	3.6	13.7	12	1	2	12
107	AZ4212-01G	SOD123	60	13.7	12	1	2	12
108	AZ4233-01F	DFN1006P2X	13	35	33	1	2	33
109	AZ4307-01F	DFN2020P2E	1650	7.8	7	1	2	7
110	AZ4310-01F	DFN2020P2E	950	11.2	10	1	2	10
111	AZ4326-01F	DFN2020P2E	520	28.7	26	1	2	26
112	AZ4507-01F	DFN1610P2E	830	7.8	7	1	2	7
113	AZ4510-01F	DFN1610P2E	465	11.2	10	1	2	10
114	AZ4512-01F	DFN1610P2E	440	13.3	12	1	2	12
115	AZ4512-01L	SOD-323	440	13.3	12	1	2	12
116	AZ4514-01F	DFN1610P2E	340	15.5	14	1	2	14
117	AZ4516-01F	DFN1610P2E	290	18	16	1	2	16
118	AZ4520-01F	DFN1610P2E	240	22.8	20	1	2	20
119	AZ4524-01F	DFN1610P2E	210	26.7	24	1	2	24
120	AZ4528-01F	DFN1610P2E	225	31.4	28	1	2	28
121	AZ4536-01F	DFN1610P2E	160	40	36	1	2	36
122	AZ4612-01L	SOD-323	1.8	13.5	12	1	2	12
123	AZ4615-01L	SOD-323	1.8	17	15	1	2	15
124	AZ4616-01F	DFN1610P2E	1.9	18.5	16	1	2	16
125	AZ4617-01F	DFN1006P2E	0.4	18.7	17	1	2	17
126	AZ4624-01L	SOD-323	1.8	26.5	24	1	2	24
127	AZ4712-01F	DFN2020P3E	1100	13.3	12	1	3	12
128	AZ4714-01F	DFN2020P3E	950	15.5	14	1	3	14

ESD Clamping Voltage (V) @8kV	Surge Clamping Voltage (V) @5A	ESD Air (kV)	ESD Contact (kV)	EFT IO (A)	Surge I <sub>pp</sub> (A)	Size (L) mm	Size (W) mm	Size (H) mm
47	43	30	30	80	16	2.70	1.60	1.15
53	50	30	30	80	13	2.70	1.60	1.15
59	56	30	30	80	15	2.70	1.60	1.15
10	9.2	30	30	80	12	1.00	0.60	0.48
17	15.5	30	30	80	45	2.70	1.60	1.15
21	21.5	30	30	80	6	1.00	0.60	0.48
29	N/A	30	30	80	4.5	1.00	0.60	0.48
30	32	30	30	80	6.5	1.00	0.60	0.50
15	14	30	30	60	5	1.00	0.60	0.48
18	N/A	16	16	40	N/A	1.00	0.60	0.48
17	16.5	30	30	80	25	2.70	1.60	1.15
70	N/A	15	15	40	N/A	1.00	0.60	0.48
9.5	8	30	30	80	180	2.00	2.00	0.50
13	N/A	30	30	80	150	2.00	2.00	0.50
31.8	N/A	30	30	N/A	46	2.00	2.00	0.50
10	8.5	30	30	80	100	1.60	1.00	0.50
13	N/A	30	30	80	80	1.60	1.00	0.50
15	14.5	30	30	80	38	1.60	1.00	0.50
15	14.5	30	30	80	38	1.70	1.30	0.90
18	17.5	30	30	80	32	1.60	1.00	0.50
20.5	N/A	30	30	80	60	1.60	1.00	0.50
25.5	25.5	30	30	80	24	1.60	1.00	0.50
30	N/A	30	30	80	50	1.60	1.00	0.50
34.5	35	30	30	80	45	1.60	1.00	0.50
44	45	30	30	80	14	1.60	1.00	0.50
22	17.5	30	30	80	12	1.70	1.30	0.90
27	23	20	20	80	10	1.70	1.30	0.90
28	23	20	20	60	8	1.60	1.00	0.50
38	N/A	15	10	N/A	N/A	1.00	0.60	0.50
36	31	18	18	40	5	1.70	1.30	0.90
15	N/A	30	30	80	225	2.00	2.00	0.55
16.5	N/A	30	30	80	200	2.00	2.00	0.55

## TVS

	Part No.	Package	Capacitance (pF, Typical)	V <sub>SV</sub> (V)	V <sub>RWM</sub> (Reverse Stand-off Voltage)	Channel #	PINS	Operation Voltage (V)
129	AZ4715-01F	DFN2020P3E	900	16.5	15	1	3	15
130	AZ4718-01F	DFN2020P3E	700	20	18	1	3	18
131	AZ4724-01F	DFN2020P3E	550	25.5	24	1	3	24
132	AZ4808-01F	DFN1006P2E	10	9	8	1	2	8
133	AZ4824-02S	SOT23-3L	38	26.2	24	2	3	24
134	AZ4836-01L	SOD-323	13	40	36	1	2	36
135	AZ4860-04F	LGA2510P10E	7.7	65	60	4	10	60
136	AZ4920-01F	DFN2018P6E	650	21.8	20	1	6	20
137	AZ4A07-01B	CSP0603P2Y	50	8	7	1	2	7
138	AZ4A12-01F	DFN0603P2Y	3.5	13.5	12	1	2	12
139	AZ4A18-01F	DFN0603P2Y	7	20	18	1	2	18
140	AZ4A20-01F	DFN0603P2Y	6.5	22.8	20	1	2	20
141	AZ4A21-01B	CSP0603P2Y	15	23.8	21	1	2	21
142	AZ4A24-01F	DFN0603P2Y	5.8	26.8	24	1	2	24
143	AZ4C36-01B	CSP0402P2U	4.3	40	36	1	2	36
144	AZ5013-01F	DFN1006P2X	55	4.5	3.3	1	2	3.3
145	AZ5013-01H	SOD-523	55	4.5	3.3	1	2	3.3
146	AZ5015-01F	DFN1006P2X	24	5.8	5	1	2	5
147	AZ5015-01H	SOD-523	24	5.8	5	1	2	5
148	AZ5123-01F	DFN1006P2X	13.5	4	3.3	1	2	3.3
149	AZ5123-01H	SOD-523	13.5	4	3.3	1	2	3.3
150	AZ5123-02F	DFN1006P3X	20	3.8	3.3	2	3	3.3
151	AZ5123-02S	SOT23-3L	11	4	3.3	2	3	3.3
152	AZ5125-01H	SOD-523	7	6	5	1	2	5
153	AZ5125-02F	DFN1006P3X	7	5.7	5	2	3	5
154	AZ5125-02S	SOT23-3L	6	5.8	5	2	3	5
155	AZ5213-02F	DFN1006P3X	0.5	5	3.3	2	3	3.3
156	AZ5215-01F	DFN1006P2E	0.8	6	5	1	2	5
157	AZ522S-01F	DFN1006P2E	0.2	5.5	2	1	2	2
158	AZ5313-02F	DFN1006P3X	0.35	4.5	3.3	2	3	3.3
159	AZ5323-01F	DFN1006P2E	0.45	4.5	3.3	1	2	3.3
160	AZ5325-01F	DFN1006P2E	0.5	7	5	1	2	5

ESD Clamping Voltage (V) @8kV	Surge Clamping Voltage (V) @5A	ESD Air (kV)	ESD Contact (kV)	EFT IO (A)	Surge I <sub>pp</sub> (A)	Size (L) mm	Size (W) mm	Size (H) mm
18	17	30	30	80	170	2.00	2.00	0.55
22	22	30	30	80	138	2.00	2.00	0.55
28	28	30	30	80	125	2.00	2.00	0.55
11.5	11	25	25	80	7.5	1.00	0.60	0.50
32	32	30	30	80	6.5	2.90	1.30	1.02
47	N/A	25	25	60	2	1.70	1.30	0.90
90	N/A	30	30	50	4	2.50	1.00	0.50
23.5	24	30	30	80	140	2.00	1.80	0.55
13.5	11	30	30	80	7	0.60	0.30	0.28
18	N/A	20	20	50	3	0.60	0.30	0.30
32	N/A	20	20	50	N/A	0.60	0.30	0.30
34	N/A	20	20	50	N/A	0.60	0.30	0.30
30	N/A	30	30	80	2.5	0.60	0.30	0.28
48	N/A	20	18	40	N/A	0.60	0.30	0.30
66	N/A	15	12	30	N/A	0.44	0.24	0.17
6.5	N/A	30	30	80	4	1.00	0.60	0.48
7	N/A	30	30	80	4	1.20	0.80	0.64
7	N/A	30	30	80	N/A	1.00	0.60	0.48
8	N/A	30	30	80	N/A	1.20	0.80	0.64
7	6.5	16	16	50	5	1.00	0.60	0.48
7.5	N/A	16	16	50	4.5	1.20	0.80	0.64
6.5	7	30	30	80	8	1.00	0.60	0.45
8.5	N/A	15	15	40	4	2.90	1.30	1.02
10	N/A	20	15	50	N/A	1.20	0.80	0.64
11	N/A	15	15	50	N/A	1.00	0.60	0.45
11.5	N/A	15	15	40	N/A	2.90	1.30	1.02
9	5.7	15	15	N/A	5.5	1.00	0.60	0.45
12	N/A	15	10	N/A	7.5	1.00	0.60	0.50
6.5	4	15	12	N/A	6.5	1.00	0.60	0.50
9.5	N/A	15	10	N/A	3.5	1.00	0.60	0.45
12	N/A	17	15	N/A	4	1.00	0.60	0.50
25	N/A	15	8	N/A	N/A	1.00	0.60	0.50

**TVS**

	Part No.	Package	Capacitance (pF, Typical)	V <sub>SV</sub> (V)	V <sub>RWM</sub> (Reverse Stand-off Voltage)	Channel #	PINS	Operation Voltage (V)
161	AZ5413-01F	DFN1006P2E	0.75	5	3.3	1	2	3.3
162	AZ5423-01F	DFN1006P2E	0.85	4.5	3.3	1	2	3.3
163	AZ5425-01F	DFN1006P2E	0.8	7	5	1	2	5
164	AZ5425-04F	DFN2510P10E	0.4	5.8	5	4	10	5
165	AZ5515-02F	DFN1006P3X	0.8	6	5	2	3	5
166	AZ5525-01F	DFN1006P2X	27	5.6	5	1	2	5
167	AZ5725-01F	DFN1006P2X	8	5.8	5	1	2	5
168	AZ5815-01F	DFN1006P2E	85	6.2	5.5	1	2	5.5
169	AZ5825-01F	DFN1006P2E	30	6	5	1	2	5
170	AZ5845-01F	DFN1006P2X	80	4.7	4.5	1	2	4.5
171	AZ5883-01F	DFN1006P2E	70	4.5	3.3	1	2	3.3
172	AZ5925-01H	SOD-523	27	5.6	5	1	2	5
173	AZ5946-02F	DFN1006P3X	35	6.6	6.3	2	3	6.3
174	AZ5A16-01M	MCSP0603P2YS	110	7	6	1	2	6
175	AZ5A23-01F	DFN0603P2Y	11	3.8	3.3	1	2	3.3
176	AZ5A25-02R	SOT523-3L	5.5	5.6	5	2	3	5
177	AZ5A75-01F	DFN0603P2Y	5.5	5.6	5	1	2	5
178	AZ5A83-01B	CSP0603P2Y	52.5	4	3.3	1	2	3.3
179	AZ5A85-01B	CSP0603P2Y	31	6	5	1	2	5
180	AZ5B0S-01F	DFN0603P2Y	0.18	5.5	2	1	2	2
181	AZ5B65-01F	DFN0603P2Y	0.3	6	5	1	2	5
182	AZ5B6S-01B	CSP0603P2Y	0.1	4.5	1.5	1	2	1.5
183	AZ5B75-01B	CSP0603P2Y	0.1	6	5	1	2	5
184	AZ5B85-01B	CSP0603P2Y	0.5	6	5	1	2	5
185	AZ5B8S-01F	DFN0603P2Y	0.18	4	1.5	1	2	1.5
186	AZ5B9S-01F	DFN0603P2Y	0.18	4	1.5	1	2	1.5
187	AZ5C23-01B	CSP0402P2U	7	4	3.3	1	2	3.3
188	AZ5C25-01B	CSP0402P2U	14	6	5	1	2	5
189	AZ5H33-01F	DFN1006P2E	0.85	16	3.3	1	2	3.3
190	AZ6112-01F	DFN1006P2E	13.5	11	1.2	1	2	1.2
191	AZ6118-01F	DFN1006P2X	40	2.2	1.8	1	2	1.8
192	AZ6121-01F	DFN1006P2Z	36	2.2	2.1	1	2	2.1

ESD Clamping Voltage (V) @8kV	Surge Clamping Voltage (V) @5A	ESD Air (kV)	ESD Contact (kV)	EFT IO (A)	Surge I <sub>pp</sub> (A)	Size (L) mm	Size (W) mm	Size (H) mm
8.5	5.6	20	20	50	7.5	1.00	0.60	0.50
14	10	15	13	N/A	5.5	1.00	0.60	0.50
24	N/A	15	8	N/A	N/A	1.00	0.60	0.50
11	N/A	15	15	40	5	2.50	1.00	0.50
10	7	22	22	80	11	1.00	0.60	0.45
10	9	30	30	80	8.5	1.00	0.60	0.48
10	N/A	15	15	50	N/A	1.00	0.60	0.48
6.0	5.5	30	30	80	40	1.00	0.60	0.50
6.5	7	30	30	80	18	1.00	0.60	0.50
6.5	5.8	30	30	80	55	1.00	0.60	0.48
5	4.5	30	30	80	42	1.00	0.60	0.50
9.5	9	30	30	80	12	1.20	0.80	0.64
9	8.4	30	30	80	20	1.00	0.60	0.45
9	8.5	30	30	80	20	0.63	0.33	0.25
8	N/A	20	20	50	5	0.60	0.30	0.30
13	N/A	15	15	40	N/A	1.60	0.80	0.80
12	N/A	17	15	40	N/A	0.60	0.30	0.30
5	4.5	25	25	80	16	0.60	0.30	0.28
6	6	25	25	80	16	0.60	0.30	0.28
5.5	3.1	15	12	N/A	7	0.60	0.30	0.30
20	11	15	15	N/A	5	0.60	0.30	0.30
14	N/A	15	8	20	N/A	0.60	0.30	0.28
18	N/A	15	8	N/A	N/A	0.60	0.30	0.28
11	N/A	16	16	N/A	4	0.60	0.30	0.28
5.5	N/A	15	12	N/A	4	0.60	0.30	0.30
4.6	N/A	15	13	N/A	4	0.60	0.30	0.30
5.8	N/A	18	18	50	N/A	0.44	0.24	0.17
6	5.6	16	13	50	10	0.44	0.24	0.17
15	13.5	20	20	80	13	1.00	0.60	0.50
5	3.5	15	15	80	12	1.00	0.60	0.50
4.5	4.2	30	30	80	15	1.00	0.60	0.48
4.4	3.3	30	30	80	13	1.00	0.60	0.40

**TVS**

	Part No.	Package	Capacitance (pF, Typical)	V <sub>SV</sub> (V)	V <sub>RWM</sub> (Reverse Stand-off Voltage)	Channel #	PINS	Operation Voltage (V)
193	AZ6225-01F	DFN1006P2E	62.5	3.5	2.5	1	2	2.5
194	AZ6425-01F	DFN1610P2E	355	3.5	2.5	1	2	2.5
195	AZ6425-01G	SOD123	350	3.5	2.5	1	2	2.5
196	AZ6518-01F	DFN1610P2E	160	2.2	1.8	1	2	1.8
197	AZ6A21-01M	MCSP0603P2YS	105	2.2	2.1	1	2	2.1
198	AZ6A25-01B	CSP0603P2Y	75	3.5	2.5	1	2	2.5
199	AZC002-02N	SOT143-4L	1.2	6.2	5	2	4	5
200	AZC002-04S	SOT23-6L	1.2	6.2	5	4	6	5
201	AZC015-04C	SC70-6L	1.3	6	5	4	6	5
202	AZC015-04F	QFN1616P6E	1.3	6	5	4	6	5
203	AZC099-04S	SOT23-6L	1.0	6.2	5	4	6	5
204	AZC199-02S	SOT23-3L	1.6	7	5	2	3	5
205	AZC199-04C	SC70-6L	1	6	5	4	6	5
206	AZC199-04S	SOT23-6L	1	6	5	4	6	5
207	AZC299-02R	SOT-563	2	6	5	2	6	5
208	AZC299-02S	SOT23-6L	2.1	6	5	2	6	5
209	AZC398-04C	SC70-5L	1.9	6	5	4	5	5
210	AZC398-08F	DFN3810P9E	1	4.5	3.3	8	9	3.3
211	AZC399-04C	SC70-6L	1.4	6	5	4	6	5
212	AZC399-04S	SOT23-6L	1.4	6	5	4	6	5
213	AZC615-04S	SOT23-6L	1.8	6	5	4	6	5

ESD Clamping Voltage (V) @8kV	Surge Clamping Voltage (V) @5A	ESD Air (kV)	ESD Contact (kV)	EFT IO (A)	Surge I <sub>pp</sub> (A)	Size (L) mm	Size (W) mm	Size (H) mm
5	4	30	30	80	20	1.00	0.60	0.50
4	3	30	30	80	80	1.60	1.00	0.50
4.7	3.5	30	30	80	60	2.70	1.60	1.15
3.6	3.0	30	30	80	65	1.60	1.00	0.50
4.4	3.5	30	30	80	22	0.63	0.33	0.25
4.5	4	30	30	80	16	0.60	0.30	0.28
13	8.1	17	12	20	6	2.92	1.30	1.06
13	8.1	17	12	20	6	2.92	1.60	1.45
12.5	8.1	18	14	20	6.5	2.05	1.25	1.00
12.5	8.1	21	14	20	6.5	1.60	1.60	0.55
11.5	9	15	15	40	5.5	2.92	1.60	1.25
11	8.5	16	16	55	5	2.90	1.30	1.02
11	8.5	15	15	50	5	2.05	1.25	1.00
11	8.5	27	16	55	6	2.92	1.60	1.45
9.5	7.8	15	15	60	6	1.60	1.20	0.56
10.5	7.5	16	16	60	7	2.92	1.60	1.45
10	8	26	16	60	8.5	2.05	1.25	1.00
8.5	6.5	26	18	60	8.5	3.80	1.00	0.50
11	7.5	26	16	60	8.5	2.05	1.25	1.00
11	7.5	27	17	60	10	2.92	1.60	1.45
8	7	30	30	70	10	2.92	1.60	1.25



## AEC-Q Qualified TVS

	Part No.	Package	Capacitance (pF, Typical)	V <sub>SV</sub> (V)	V <sub>RWM</sub> (Reverse Stand-off Voltage)	Channel #	PINS	Operation Voltage (V)
1	AZ9113-04S	SOT23-6L	2.1	4.5	3.3	4	6	3.3
2	AZ9115-04S	SOT23-6L	2	6	5	4	6	5
3	AZ9143-04F	DFN2510P10E	0.45	4.5	3.3	4	10	3.3
4	AZ9143-08F	DFN3810P9E	0.5	4.5	3.3	8	9	3.3
5	AZ9153-04S	SOT23-6L	2.1	4.5	3.3	4	6	3.3
6	AZ9173-04F	DFN1308P5Z	0.4	5	3.3	4	5	3.3
7	AZ9305-01G	SOD123	1500	6	5	1	2	5
8	AZ9313-01F	DFN1610P2E	460	4	3.3	1	2	3.3
9	AZ9315-01F	DFN1610P2E	250	6	5	1	2	5
10	AZ9407-01H	SOD-523	60	8	7	1	2	7
11	AZ9408-01G	SOD123	900	9	8	1	2	8
12	AZ9412-01G	SOD123	780	13.5	12	1	2	12
13	AZ9412-01H	SOD-523	40	13.5	12	1	2	12
14	AZ9415-01G	SOD123	600	16.7	15	1	2	15
15	AZ9424-01F	DFN1006P2X	42	27	24	1	2	24
16	AZ9424-01G	SOD123	455	26.7	24	1	2	24
17	AZ9424-01H	SOD-523	60	26.7	24	1	2	24
18	AZ9424-02S	SOT23-3L	38	26.2	24	2	3	24
19	AZ9436-01G	SOD123	420	40	36	1	2	36
20	AZ9513-01F	DFN1006P2X	55	4.5	3.3	1	2	3.3
21	AZ9515-02F	DFN1006P3X	0.8	6	5	2	3	5
22	AZ9523-01F	DFN1006P2X	15	4	3.3	1	2	3.3
23	AZ9523-01H	SOD-523	15	4	3.3	1	2	3.3
24	AZ9525-01H	SOD-523	7.5	5.6	5	1	2	5
25	AZ9565-01F	DFN1006P2E	0.45	7	5	1	2	5
26	AZ9568-01F	DFN1006P2E	0.4	10	8	1	2	8
27	AZ9585-01F	DFN1006P2E	28	6	5	1	2	5
28	AZ9625-01F	DFN1006P2E	63	3.5	2.5	1	2	2.5
29	AZ9707-01F	DFN1610P2E	850	7.8	7	1	2	7
30	AZ9710-01F	DFN1610P2E	480	11.2	10	1	2	10
31	AZ9712-01F	DFN1610P2E	550	13.3	12	1	2	12
32	AZ9716-01F	DFN1610P2E	300	18	16	1	2	16

ESD Clamping Voltage (V) @8kV	Surge Clamping Voltage (V) @5A	ESD Air (kV)	ESD Contact (kV)	Surge I <sub>PP</sub> (A)	Size (L) mm	Size (W) mm	Size (H) mm
7.5	8.5	30	30	16	2.92	1.60	1.45
9	9.5	30	30	15	2.92	1.60	1.45
9	6.6	15	15	5	2.50	1.00	0.50
9	N/A	15	12	N/A	3.80	1.00	0.50
7.5	6	30	30	15	2.90	1.60	1.25
11	N/A	15	10	3	1.30	0.80	0.40
8.5	7.5	30	30	55	2.70	1.60	1.15
4.8	5.4	30	30	70	1.60	1.00	0.50
6	6.5	30	30	60	1.60	1.00	0.50
13.5	N/A	30	30	N/A	1.20	0.80	0.64
11.5	10.5	30	30	50	2.70	1.60	1.15
16.5	15.5	30	30	35	2.70	1.60	1.15
20	N/A	18	18	N/A	1.20	0.80	0.64
19	18	30	30	30	2.70	1.60	1.15
42	N/A	30	30	N/A	1.00	0.60	0.48
31	30	30	30	20	2.70	1.60	1.15
39	N/A	30	30	N/A	1.20	0.80	0.64
31	31	30	30	6	2.90	1.30	1.02
47	43	30	30	12	2.70	1.60	1.15
6	N/A	30	30	N/A	1.00	0.60	0.48
10.7	7.5	18	18	7.5	1.00	0.60	0.48
7	N/A	16	16	N/A	1.00	0.60	0.48
8	N/A	18	18	4	1.20	0.80	0.64
11	N/A	18	18	N/A	1.20	0.80	0.64
20	N/A	15	12	N/A	1.00	0.60	0.50
20	16	30	30	5	1.00	0.60	0.50
6.5	6	25	25	15	1.00	0.60	0.50
5	4.3	30	30	20	1.00	0.60	0.50
9.0	8.5	30	30	45	1.60	1.00	0.50
12.7	12.3	30	30	32	1.60	1.00	0.50
15	14.5	30	30	25	1.60	1.00	0.50
20	20	30	30	20	1.60	1.00	0.50

## AEC-Q Qualified TVS

	Part No.	Package	Capacitance (pF, Typical)	V <sub>SW</sub> (V)	V <sub>RWM</sub> (Reverse Stand-off Voltage)	Channel #	PINS	Operation Voltage (V)
33	AZ9720-01F	DFN1610P2E	250	22.8	20	1	2	20
34	AZ9724-01F	DFN1610P2E	210	26.7	24	1	2	24
35	AZ9736-01F	DFN1610P2E	160	40	36	1	2	36
36	AZ9808-01F	DFN1006P2X	28	9	8	1	2	8
37	AZ9812-01F	DFN1006P2X	3.5	13.5	12	1	2	12
38	AZ9812-01L	SOD-323	2	13.5	12	1	2	12
39	AZ9817-01F	DFN1006P2E	0.4	18.7	17	1	2	17
40	AZ9824-01L	SOD-323	55	25.5	24	1	2	24
41	AZ9C39-02S	SOT23-3L	2	6	5	2	3	5
42	AZ9C39-04S	SOT23-6L	1.3	6	5	4	6	5
43	AZ9C98-08F	DFN3810P9E	1	4.5	3.3	8	9	3.3

ESD Clamping Voltage (V) @8kV	Surge Clamping Voltage (V) @5A	ESD Air (kV)	ESD Contact (kV)	Surge I <sub>PP</sub> (A)	Size (L) mm	Size (W) mm	Size (H) mm
25.5	24.5	30	30	18	1.60	1.00	0.50
31	30	30	30	16	1.60	1.00	0.50
44	44	30	30	11	1.60	1.00	0.50
15.5	N/A	30	30	N/A	1.00	0.60	0.48
17	N/A	16	16	N/A	1.00	0.60	0.48
22	18	30	24	7	1.70	1.30	0.90
38	N/A	15	10	N/A	1.00	0.60	0.50
31	29	30	30	8	1.70	1.30	0.90
10.5	7.7	17	17	6.5	2.90	1.30	1.03
10	7.5	18	18	6.5	2.90	1.60	1.25
8	6.5	16	16	6.5	3.80	1.00	0.50

## Transceiver

Interface	Part No.	Package	Supply Voltage	Half/Full Duplex	Data Rate (bps)
CAN	AZKN1040T	SO-8	5V	Half	5M
	AZKN1044T	SO-8	5V	Half	5M
RS485	AZRS3072	SO-8	3.3V	Half	250k
	AZRS3076	SO-8	3.3V	Half	16M
	AZRS3078	SO-8	3.3V	Half	16M
	AZRS3080E	SO-8	5V	Half	10M
	AZRS3082	SO-8	5V	Half	115k
	AZRS485E	SO-8	5V	Half	10M
	AZRS485N	SO-8	5V	Half	10M
	AZRS5485E	SO-8	5V	Half	10M
	AZRS5485N	SO-8	5V	Half	10M
	AZRS6534	SO-8	5V	Half	8M
	AZRS6605	SO-8	5V	Half	1M

Transceivers on Bus	Receiver Fail-Safe	Surge Robustness	ESD Contact	Feature Highlight
N/A	N/A	N/A	12kV	Standby Mode
N/A	N/A	100V (2ohm)	15kV	Standby Mode
256	Yes	N/A	15kV	ESD RS485
256	Yes	N/A	15K	Low Power, High Speed
256	Yes	N/A	15kV	ESD RS485
256	Yes	N/A	15kV	VOD2 Enhanced
256	Yes	30A	30kV	Surge RS485
256	Yes	N/A	15kV	VOD2 Enhanced
256	Yes	N/A	15kV	Polarity Free
256	Yes	N/A	15kV	Polarity Free
256	Yes	30A	30kV	Surge RS485
256	Yes	N/A	9kV	ESD RS485

**EMI**

Reliability	Part No	Package	S <sub>21</sub> Initial Drop (db)	-3 dB Cutoff Freq.	C <sub>line</sub> (pF) @ 0V (typical)	V <sub>30</sub> (V)	V <sub>RWM</sub> (Reverse Stand-off Voltage)	Channel #
JDEC	AZ/MHCD06-06F	DFN25135P12E	-6	110MHz	41.5	7.5	5	6

Pins	Pin Pitch (mm)	Max Operation Voltage (V)	ESD Clamping Voltage (V)	ESD Air (kV)	ESD Contact (kV)	Size (L) mm	Size (W) mm	Size (H) mm
12	0.4	5.5	9	18	18	2.50	1.35	0.50

**TVS Solutions for NB/MB**

**USB**

USB4 Tx/Rx  
AZ5B85-01F  
AZ5B95-01F  
AZ5B05-01F  
AZ5B75-01B

USB 3.0/3.1  
AZ1765-04F  
AZ1123-04F  
AZ1143-04F  
AZ1243-04F  
AZ1045-04F

USB D+/D-  
AZ1243-04F  
AZ1045-04F  
AZC199-04S  
AZC399-04S  
AZ1515-04S  
AZ1575-04S  
AZ5515-02F  
AZ5B85-01B  
AZ5413-01F  
AZ5325-01F

USB Type-C CC/SBU  
AZ1045-04F  
AZC199-04S  
AZ5515-02F

AZ5825-01F  
AZ5A75-01F  
AZ5B85-01B  
AZ4024-01F  
AZ4124-01F

**HDMI**

HDMI 2.1 TMDS  
AZ1023-04F  
AZ1123-04F

HDMI 1.4/2.0 TMDS  
AZ1023-04F  
AZ1123-04F  
AZ1143-04F  
AZ1243-04F  
AZ1045-04F

HDMI Low Speed Signals  
AZC199-04S  
AZ1045-04F

**DisplayPort**

DP 2.0 TMDS  
AZ5B05-01F  
AZ5515-02F  
DP 1.2/1.4 TMDS  
AZ1023-04F

AZ1123-04F  
AZ1243-04F

**DP Low Speed Signals**

AZ1045-04F  
AZC199-04S  
AZ5515-02F

**VGA**

AZC199-04S  
AZC399-04S  
AZ1575-04S

**LAN**

LAN 100M/1G Surge L-L  
AZ3125-08F  
AZ3133-08F  
AZ1613-01L

LAN 100M/1G Surge L-G  
AZ1513-04S  
AZC399-04S  
AZ1575-04S

LAN 2.5G/5G Surge L-L  
AZ1613-01L

LAN 2.5G/5G Surge L-G  
AZ1243-04F  
AZ1513-04S

LAN 10G Surge L-L  
AZ5B05-01F

LAN 10G Surge L-G  
AZ1023-04F  
AZ1123-04F

**Speaker/Mic/  
Audio/Detect**

AZ5123-02S  
AZ5125-02S  
AZ5883-01F  
AZ2025-02S  
AZ5125-02S  
AZ5725-01F  
AZ5825-01F  
AZ5925-01H

**Power**

AZ5725-01F  
AZ5925-01H  
AZ4012-01G  
AZ4020-01G  
AZ4520-01F  
AZ4920-01F  
AZ4024-01F  
AZ4528-01F

Charge Pump  
AZ4A12-01F  
AZ4212-01F  
AZ4A20-01F

**TVS Solutions for Networking/STB**

**USB**

USB 3.0/3.1  
AZ1765-04F  
AZ1023-04F  
AZ1123-04F  
AZ1143-04F  
AZ1045-04F

USB D+/D-  
AZ1045-04F  
AZ1575-04S  
AZ1045-02F  
AZ5515-02F  
AZC199-02S  
AZ5413-01F  
AZ5325-01F

USB Type-C CC/SBU  
AZ1045-04F  
AZ5515-02F

**HDMI**

HDMI 2.1 TMDS  
AZ1023-04F  
AZ1123-04F

HDMI 1.4/2.0 TMDS  
AZ1045-04F  
AZ1143-04F

HDMI Low Speed Signals  
AZC199-04S  
AZ5725-01F

**LAN**

LAN 100M/1G Surge L-L  
AZ3125-08F  
AZ3133-08F  
AZC199-04S  
AZ1603-02S  
AZ1613-01L

LAN 100M/1G Surge L-G  
AZ1513-04S  
AZ1515-04S

LAN 2.5G/5G/10G Surge  
AZ5B05-01F  
AZ5225-01F  
AZ1243-04F

**DisplayPort**

DP Low Speed Signals  
AZC199-04S  
AZ5725-01F

**SIM Card**

AZC199-04S  
AZ1575-04S

**Speaker/Mic/  
Audio/GPIO**

AZ5725-01F  
AZ5825-01F

**AHD/TVI/CVI/CVBS**

AZ1613-01L

**Power**

AZ6225-01F  
AZ6425-01F  
AZ5123-01H  
AZ3105-01F  
AZ5125-01H  
AZ5725-01F  
AZ5825-01F  
AZ4212-01F  
AZ4512-01F  
AZ4520-01F

**LED**

AZ5123-01F  
AZ5883-01F

**TVS Solutions for Fingerprint**

**SPI**

AZ5A23-01F  
AZ5A83-01B  
AZ5C23-01B

**Detect**

AZ5B65-01F

**Power**

AZ5A23-01F  
AZ5A83-01B  
AZ5C23-01B  
AZ5A75-01F  
AZ5A85-01B  
AZ5C25-01B

**TVS Solutions for PND/GPS**
**eDP/MIPI/LVDS/  
Mini-LVDS**

AZ1023-04F  
AZ1043-04F  
AZ1123-04F

**Antenna GPS**

AZ5325-01F  
AZ5B85-01B

**USB D+/D-**

AZC099-04S  
AZC399-04S  
AZ1575-04S

**JTAG**

AZC099-04S  
AZC399-04S  
AZ1575-04S

**I<sup>2</sup>C**

AZ5015-01F  
AZ5525-01F

**Button 5V**

AZ5525-01F  
AZ5825-01F

## ⚡ TVS Solutions for TV/Monitor

- USB**
  - USB4 Tx/Rx  
AZ5B05-01F
  - USB 3.0/3.1  
AZ1045-04F  
AZ1065-06F  
AZ1365-06F
  - USB D+/D-  
AZ1515-04S  
AZC199-04S  
AZC399-04S  
AZ1575-04S  
AZC199-02S  
AZ1045-02F  
AZ5A13-01F  
AZ5325-01F
- Speaker/Mic/Audio**  
AZ5725-01F
- HDMI**
  - HDMI 2.1 TMDS  
AZ1023-04F  
AZ1123-04F  
AZ1023-02F
  - HDMI 1.4/2.0 TMDS  
AZ1123-04F  
AZ1143-04F  
AZ1243-04F  
AZ1045-04F  
AZ1345-04F
  - HDMI Low Speed Signals  
AZC199-04S  
AZ1575-04S  
AZ5725-01F  
AZ5825-01F
- DisplayPort**
  - DP 2.0 TMDS  
AZ1123-04F
  - DP Low Speed Signals  
AZ1575-04S  
AZC199-04S  
AZ5725-01F  
AZ5825-01F
- LAN**
  - LAN 100M/1G Surge L-G  
AZ1513-04S  
AZ1575-04S  
AZC199-04S
  - LAN 100M/1G Surge L-L  
AZ3133-04F  
AZ1613-01L
- Power**
  - AZ6118-01F  
AZ6518-01F  
AZ6225-01F  
AZ3103-01F  
AZ5883-01F  
AZ3105-01F  
AZ3205-01F  
AZ5825-01F  
AZ4012-01G  
AZ4520-01F  
AZ4024-01G
- Button**  
AZ5013-01H  
AZ5123-01H  
AZ5125-01H

## ⚡ TVS Solutions for Automotive

- Antenna**
  - GPS Antenna  
AZ9817-01F
  - Bluetooth/Wi-Fi Antenna  
AZ9565-01F  
AZ9568-01F
- Speaker/Mic/Audio**
- eDP/MIPI/LVDS/Mini-LVDS**  
AZ9143-08F  
AZ9143-04F
- Automotive Ethernet**  
AZ9515-02F
- CAN Bus**  
AZ9424-02S
- Camera**  
AZ9523-01F  
AZ9808-01F
- GPIO**
  - AZ9515-02F  
AZ9424-01H  
AZ9424-01F
- LED**  
AZ9585-01F  
AZ9736-01F
- Power**
  - AZ9313-01F  
AZ9523-01F  
AZ9305-01G  
AZ9315-01F  
AZ9525-01H  
AZ9585-01F  
AZ9625-01F  
AZ9412-01H  
AZ9412-01G  
AZ9712-01F  
AZ9812-01F  
AZ9812-01L  
AZ9720-01F  
AZ9424-01F  
AZ9424-01H  
AZ9424-01G  
AZ9724-01F  
AZ9824-01F
- Button 5V**  
AZ9525-01H
- USB D+/D-**  
AZ9115-04S
- HDMI**
  - HDMI 1.4/2.0 TMDS  
AZ9143-08F  
AZ9143-04F
  - HDMI Low Speed Signals  
AZ9115-04S  
AZ9C39-04S
- DisplayPort**
  - DP Low Speed Signals  
AZ9115-04S  
AZ9C39-04S
- LAN Bus**  
AZ9824-01L  
AZ9824-01F
- SD Card**  
AZ9143-04F
- UART**  
AZ9565-01F

## ⚡ TVS Solutions for Industrial/DVR/POS

- Bluetooth/Wi-Fi Antenna**
  - AZ1143-04F  
AZ1243-04F  
AZ1045-04F
  - AZ5215-01F  
AZ5325-01F  
AZ4617-01F
- USB**
  - USB4 Tx/Rx  
AZ5B05-01F
  - USB 3.0/3.1  
AZ1365-06F  
AZ1765-04F  
AZ1123-04F  
AZ1143-04F  
AZ1045-04F
  - USB D+/D-  
AZC199-04S  
AZC399-04S  
AZ1515-04S  
AZ1575-04S  
AZ5215-01F  
AZ5325-01F  
AZ5413-01F
  - USB Type-C CC/SBU  
AZ1045-04F  
AZ5515-02F  
AZ5B65-01F
- Speaker/Mic/Audio**  
AZ5725-01F  
AZ5825-01F
- LAN 2.5G/5G/10G Surge**  
AZ5B05-01F  
AZ5225-01F  
AZ1603-02S  
AZ1603-01L  
AZ1613-01L  
AZ1243-04F
- Button**  
AZ3103-01F  
AZ5123-01F  
AZ5123-01H  
AZ5125-01H  
AZ5725-01F
- Power**
  - AZ6225-01F  
AZ6425-01F  
AZ3003-01G  
AZ5825-01F  
AZ3105-01F  
AZ3005-01G  
AZ1615-01L  
AZ4507-01F  
AZ4010-01G  
AZ4012-01G  
AZ4512-01F  
AZ4712-01F  
AZ4015-01G  
AZ4115-01F  
AZ4018-01G  
AZ4520-01F  
AZ4024-01G  
AZ4024-01H  
AZ4024-01L  
AZ4030-01G  
AZ4036-01G
- Bluetooth/Wi-Fi Antenna**
  - AZ5215-01F  
AZ5325-01F  
AZ4617-01F
- DisplayPort**
  - DP 1.2/1.4 TMDS  
AZ1023-04F  
AZ1123-04F  
AZ1143-04F
  - DP Low Speed Signals  
AZC199-04S  
AZC399-04S  
AZ1575-04S
- VGA**  
AZC199-04S  
AZ1515-04S  
AZ1575-04S
- LAN**
  - LAN 100M/1G Surge L-L  
AZ3125-08F  
AZ3133-08F  
AZ1613-01L  
AZ1615-01L
  - LAN 100M/1G ESD (only)  
AZC199-04S
  - LAN 100M/1G Surge L-G  
AZ1213-04F  
AZ1513-04S  
AZ1515-04S  
AZ1575-04S
- HDMI**
  - HDMI 2.1 TMDS  
AZ1023-04F  
AZ1123-04F
  - HDMI 1.4/2.0 TMDS  
AZ1043-04F
- RS232**  
AZ4212-01G  
AZ4212-01F  
AZ4615-01L  
AZ4616-01F
- RS485**  
AZ4212-01G  
AZ4212-01F
- SD Card**  
AZC199-04S  
AZ1575-04S  
AZ5515-02F  
AZ5325-01F
- Low Speed Data/GPIO/SPI**  
AZ5125-02F  
AZ5123-01F  
AZ5883-01F  
AZ5013-01H  
AZ1603-01L  
AZ1613-01L  
AZ5125-01H  
AZ1615-01L  
AZ2215-01L

## ⚡ TVS Solutions for Mobile

- USB**
  - USB 3.0/3.1  
AZ5B85-01F  
AZ5B05-01F
  - USB D+/D-  
AZ5515-02F  
AZ5413-01F  
AZ5B85-01B  
AZ5H33-01F
- Speaker/Mic/Audio**  
AZ5825-01F  
AZ5845-01F  
AZ4208-01F  
AZ4A12-01F
- Button**  
AZ5A23-01F  
AZ5A75-01F
- GPIO**  
AZ5A23-01F  
AZ5A75-01F
- Power**
  - AZ4712-01F  
AZ4715-01F  
AZ4718-01F  
AZ4724-01F
- Battery**  
AZ3505-01F
- USB Type-C CC/SBU**  
AZ5515-02F  
AZ5B85-01B

## ⚡ TVS Solutions for 3C Peripheral

### Bluetooth/Wi-Fi Antenna

AZ5325-01F  
AZ5B65-01F  
AZ5B85-01B

### USB

USB 3.0/3.1  
AZ1065-06F  
AZ1765-04F  
AZ1023-04F  
AZ1043-04F  
AZ1123-04F  
AZ1243-04F  
AZ1045-04F  
AZ1045-02F  
AZ5B85-01F

USB D+/D-  
AZC199-04S  
AZ1045-04F  
AZ5325-01F  
AZ5515-02F  
AZ1575-04S

USB Type-C CC/SBU  
AZ1045-04F  
AZ5515-02F

### HDMI

HDMI 2.1 TMDS  
AZ1023-04F  
AZ1123-04F

HDMI 1.4/2.0 TMDS  
AZ1043-08F  
AZ1143-04F  
AZ1243-04F  
AZ1045-04F

HDMI Low Speed Signals  
AZC199-04S  
AZ5515-02F

### DisplayPort

DP 1.2/1.4 TMDS  
AZ1765-04F  
AZ1045-04F

DP Low Speed Signals  
AZC199-04S  
AZ5515-02F

### VGA

AZC199-04S

### SD Card

AZ1045-02F

### LAN

LAN 100M/1G Surge L-G  
AZ1515-04S  
AZ1575-04S

LAN 100M/1G Surge L-L  
AZ3125-08F  
AZ3133-08F  
AZ1613-01L

### Speaker/Mic/Audio

AZ5A83-01B  
AZ5125-01H  
AZ5123-01H  
AZ5825-01F  
AZ5885-01F  
AZ5A75-01F  
AZ5A85-01B

### I<sup>2</sup>C/SPI

AZ5883-01F  
AZ5A83-01B

### LED

AZ5725-01F  
AZ5825-01F  
AZ5885-01F

### Power

AZ6A25-01B  
AZ5883-01F  
AZ5A23-01F  
AZ5A75-01F  
AZ5A83-01B  
AZ5125-01H  
AZ5725-01F  
AZ5A85-01B  
AZ5825-01F  
AZ5885-01F  
AZ4107-01F  
AZ4520-01F  
AZ4920-01F  
AZ4024-01G  
AZ4524-01F  
AZ4724-01F

### Button

AZ5123-01H  
AZ5125-01H  
AZ5825-01F  
AZ5885-01F  
AZ5A75-01F  
AZ5A85-01B

AZ5925-01H  
AZ4512-01F

## ⚡ TVS Solutions for LCM (Panel)

### V-by-One

AZ1115-08F  
AZ1023-04F  
AZ1043-08F  
AZ1123-04F

### eDP/MIPI/LVDS/Mini-LVDS

AZ1043-08F  
AZ1023-04F  
AZ1123-04F  
AZ1143-04F  
AZ1243-04F  
AZ4524-01F  
AZ1045-04F  
AZ1513-04S  
AZ5313-02F

### AUX

AZ1013-04F

### I<sup>2</sup>C/SPI/TP

AZ5125-02F

### GOA/GOP

AZ4860-04F

### Power

AZ6118-01F  
AZ6518-01F  
AZ6225-01F  
AZ6425-01F  
AZ3003-01G  
AZ3103-01F  
AZ5123-01F  
AZ5883-01F  
AZ5A23-01F  
AZ5A83-01B  
AZ3005-01G  
AZ3105-01F  
AZ5815-01F  
AZ5825-01F

AZ5A75-01F  
AZ5A85-01B  
AZ4012-01F  
AZ4512-01F  
AZ4A12-01F

### VSP/VSN

AZ5946-02F  
AZ4107-01F  
AZ4008-01F  
AZ4012-01F  
AZ4512-01F  
AZ4020-01G

### AVDD

AZ4008-01F  
AZ4008-01G  
AZ4808-01F  
AZ4012-01F

### VGH/VGL

AZ4018-01G  
AZ4617-01F  
AZ4036-01G

Backlight Power  
AZ4520-01F  
AZ4030-01G  
AZ4233-01F  
AZ4036-01G

### for Automotive

AZ9143-08F  
AZ9143-04F  
AZ9113-04S  
AZ9523-01F  
AZ9305-01G  
AZ9315-01F  
AZ9515-02F  
AZ9565-01F  
AZ9585-01F  
AZ9408-01F  
AZ9808-01F  
AZ9412-01G  
AZ9817-01F  
AZ9424-01G  
AZ9436-01G

## ⚡ TVS Solutions for Storage

### PCIe NVMe Signals

AZ1143-04F  
AZ1243-04F

### M.2

PCIe Signals  
AZ5B95-01F  
SATA2/SATA3 Signals  
AZ1143-04F  
AZ1243-04F

### Power

AZ1613-01L  
AZ5123-01H  
AZ5A83-01B  
AZ5125-01H  
AZ5725-01F  
AZ5825-01F

## ⚡ TVS Solutions for Battery Pack

### Low Speed Data

AZ5125-02F  
AZ5A75-01F  
AZ5725-01F

### Power

AZ5525-01F  
AZ5725-01F  
AZ5825-01F  
AZ4018-01G

AZ4120-01F  
AZ4520-01F  
AZ4024-01L  
AZ4524-01F

## ⚡ Field Applications of Transceiver IC

### Industrial Out-Plant, Medical and Industrial Control System

High Surge, Slew Rate Limited RS485  
AZRS3082

High Surge, 8 Mbps Data Rate RS485  
AZRS6534

3.3V, Extra High Data Rate RS485  
AZRS3078

CAN Bus Transceiver  
AZKN1040T  
AZKN6125P

High Temperature  
AZRS6606

### Monitoring System Networks and IPC

3.3V, Extra High Data Rate RS485  
AZRS3076

3.3V, Low Power Shutdown RS485  
AZRS3078

3.3V, Slew Rate Limited RS485  
AZRS3082

General RS485  
AZRS3080E  
AZRS6605

CAN Bus Transceiver  
AZKN1040T  
AZKN1044T

### Automotive Electronics (AEC-Q100 Qualified)

CAN Bus  
AZKN1044T  
AZKN9125P

### Building Automation Networks

VOD2 Enhanced RS485  
AZRS485E

Polarity Free RS485  
AZRS485N  
AZRS5485N

CAN Bus Transceiver  
AZKN1040T  
AZKN6125P



## 有研發才有品牌 有可靠的產品才有客戶的品牌忠誠度

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半導體技術的進步，讓人手一支手持式裝置，這手持式裝置的功能也遠比半世紀前的電腦還要多，這兩者對可靠度的要求卻是一樣嚴格，耐溫耐壓，還可以連續接受無數次靜電的衝擊。

讓產品的可靠度表現向客戶說話，讓客戶的持續上門，認同公司，也是少數長存於市場公司的核心價值。

## Reliability Builds Brand

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The Moore's Law defines the progress of the semiconductor development for the past decades, it also leads the huge computers which occupy a room to become a hand held device today. Both the huge computer and small hand held device share the same standard in reliability test. Except to pass the high temperature and high pressure test, it also has to pass the ESD standard.

Many respected companies provide the quality products to customers and have these reliable products to represent their company.

Only those great companies will have customers keep knocking the door for great products. Customers recognize the companies through their products. Reliability is the key for great brand.





ISO 9001



ISO 14001



ISO 27001



ISO 45001



IECQ



VDA6.3



CiA



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