

TEXAS INSTRUMENTS Surge Protection Devices



Transient Protection

Texas Instruments

RoHS Compliant This product is RoHS compliant.

◆ Surface Mount Device
For quantities greater than listed, call for quote.

EMI FILTERS

MOUSER STOCK NO.	Texas Instruments Part No.	Package	No. Of Channels	VBR @ II		ESD Protection	Resistance (Typ.)(Ω)	Capacitance (Typ.)(pF)	Primary Use	Price Each			
				(V) (Min.)	(mA) (Min.)					1	25	100	250
◆ 595-TPD2F702YFKR	TPD2F702YFKR	DSBGA-5	2	±14	1	15kV-30kV	15	5000	Audio Headphone	.59	.457	.406	.347
◆ 595-TPD3F303DPVPR	TPD3F303DPVPR	USON-8	3	6	1	15kV	100	20	SIM Interface	1.03	.81	.729	.634
◆ 595-TPD3F303DQDR	TPD3F303DQDR	WSO8-8	3	6	1	15kV	100	20	SIM Interface	1.03	.81	.729	.634
◆ 595-TPD6F002DSVR	TPD6F002DSVR	SON-12	6	6	0.01	15kV-30kV	100	17	LCD Display	.80	.624	.554	.48

FIREWIRE ESD CLAMP WITH LIVE-INSERTION DETECTION

MOUSER STOCK NO.	Texas Instruments Part No.	Package	No. Of Channels	VBR @ II		ESD Protection	Dynamic Resistance (Typ.)(Ω)	Capacitance (Typ.)(pF)	Current Consumption (Max.)(μA)	Price Each			
				(V) (Min.)	(mA) (Min.)					1	25	100	250
◆ 595-TPD4S1394DQLR	TPD4S1394DQLR	SON-8	4	4.2	1	6kV-15kV	1	1.5	200	1.01	.78	.682	.591

HDMI PORT ESD SOLUTIONS

MOUSER STOCK NO.	Texas Instruments Part No.	Package	No. Of Channels	VBR @ II		ESD Protection	Leakage Current (Max.)(nA)	IO Capacitance (Typ.)(pF)	Operating Temperature (°C)	Price Each			
				(V) (Min.)	(mA) (Min.)					1	25	100	250
◆ 595-TPD8S009DSMR	TPD8S009DSMR	SON-15	8	9	1	8kV-9kV	10	0.8	-40 to 85	1.67	1.28	1.17	1.04
◆ 595-TPD12S016PWR	TPD12S016PWR	TSSOP-24	12	6.5	9	2kV-15kV	-	0.05	-40 to +85	1.95	1.63	1.30	.91
◆ 595-TPD12S520DBTR	TPD12S520DBTR	TSSOP-38	12	9	-	2kV-8kV	0.05	0.9	-40 to 85	1.35	1.08	.941	.888
◆ 595-TPD12S521DBTR	TPD12S521DBTR	TSSOP-38	12	9	-	2kV-8kV	10	0.8	-40 to 85	1.76	1.39	1.25	1.09
◆ 595-TPD12S015AYFFR	TPD12S015AYFFR	DSBGA-28	12	9	1	2.5kV-15kV	2500	1.3	-40 to 85	2.16	1.96	1.76	1.52
Development Tool													
◆ 595-TPD12S016PWREVM	TPD12S016PWREVM	"TPD12S016 is a single-chip HDMI interface device with auto-direction sensing I2C voltage level shift buffers, load switch, and integrated high-speed ESD protection clamps"							51.00	-	-	-	

HIGH-SPEED DIFFERENTIAL INTERFACE ESD SOLUTIONS

MOUSER STOCK NO.	Texas Instruments Part No.	Package	No. Of Channels	VBR @ II		ESD Protection	Leakage Current (Max.)(nA)	IO Capacitance (Typ.)(pF)	Operating Temperature (°C)	Price Each			
				(V) (Min.)	(mA) (Min.)					1	25	100	250
◆ 595-TPD2E009DBZR	TPD2E009DBZR	SOT-23-3	2	7	1	8kV	10	0.7	-40 to 85	.57	.44	.39	.338
◆ 595-TPD4EUSB30DQAR	TPD4EUSB30DQAR	SOT-DRT	4	7	1	8kV	10	0.8	-40 to 85	.85	.668	.578	.349
◆ 595-TPD4S009DBVR	TPD4S009DBVR	SOT-23-6	4	9	1	8kV-9kV	10	0.8	-40 to 85	.95	.756	.688	.648

HIGH-SPEED DATA INTERFACE ESD SOLUTIONS

MOUSER STOCK NO.	Texas Instruments Part No.	Package	No. Of Channels	VBR @ II		ESD Protection	Leakage Current (Max.)(nA)	IO Capacitance (Typ.)(pF)	Operating Temperature (°C)	Price Each			
				(V) (Min.)	(mA) (Min.)					1	25	100	250
◆ 595-TPD2E001DRLR	TPD2E001DRLR	SOT-5	2	11	10	8kV-15kV	1	1.5	-40 to 85	.58	.448	.396	.338
◆ 595-TPD2E001DRLRG4	TPD2E001DRLRG4	SOT-5	2	11	10	8kV-15kV	1	1.5	-40 to 85	.58	.448	.396	.338
◆ 595-TPD2E001DRYR	TPD2E001DRYR	SON-6	2	11	10	8kV-15kV	1	1.5	-40 to 85	.58	.448	.396	.343
◆ 595-TPD2E001DZDR	TPD2E001DZDR	SOP-4	2	11	10	8kV-15kV	1	1.5	-40 to 85	.71	.545	.484	.42
◆ 595-TPD2E007DCKR	TPD2E007DCKR	SC-70	2	14	10	8kV-15kV	50	15	-40 to 85	.77	.598	.521	.452
◆ 595-TPD3E001DRLR	TPD3E001DRLR	SOT-5	3	11	10	8kV-15kV	1	1.5	-40 to 85	.43	.299	.257	.222
◆ 595-TPD3E001DRYR	TPD3E001DRYR	SON-6	3	11	10	8kV-15kV	1	1.5	-40 to 85	.53	.378	.321	.277
◆ 595-TPD4E001DPKT	TPD4E001DPKT	USON-6	4	11	10	8kV-15kV	1.5	1.5	-40 to 85	.50	.385	.33	.22
◆ 595-TPD4E001DRLR	TPD4E001DRLR	SOT-5	4	11	10	8kV-15kV	1.5	1.5	-40 to 85	.47	.334	.286	.247
◆ 595-TPD4E001DRLRG4	TPD4E001DRLRG4	SOT-5	4	11	10	8kV-15kV	1.5	1.5	-40 to 85	.47	.334	.286	.247
◆ 595-TPD4E001DRSR	TPD4E001DRSR	QFN-6	4	11	10	8kV-15kV	1.5	1.5	-40 to 85	.68	.47	.40	.35
◆ 595-TPD4E002DRLR	TPD4E002DRLR	SOT-5	4	6.1	1	15kV	100	11	-40 to 85	.50	.325	.271	.226
◆ 595-TPD4E004DRYR	TPD4E004DRYR	SON-6	4	6	10	8kV-15kV	1	1.6	-40 to 85	.62	.44	.373	.322
◆ 595-TPD6E001RSER	TPD6E001RSER	UQFN-10	6	11	10	8kV-15kV	1	1.5	-40 to 85	.57	.352	.307	.264
◆ 595-TPD6E001RSFR	TPD6E001RSFR	WQFN-12	6	11	10	8kV-15kV	1	1.5	-40 to 85	.57	.352	.307	.264
◆ 595-TPD6E004RSER	TPD6E004RSER	UQFN-8	6	11	10	8kV-15kV	1	1.6	-40 to 85	.60	.466	.417	.361

SUPER-SPEED (6 GBPS) USB 3.0 INTERFACE ESD SOLUTIONS

MOUSER STOCK NO.	Texas Instruments Part No.	Package	No. Of Channels	VBR @ II		ESD Protection	Leakage Current (Max.)(nA)	IO Capacitance (Typ.)(pF)	Operating Temperature (°C)	Price Each			
				(V) (Min.)	(mA) (Min.)					1	25	100	250
◆ 595-TPD2EUSB30ADRTR	TPD2EUSB30ADRTR	SOT-3	2	4.5	1	8kV-9kV	10	0.7	-40 to 85	.66	.51	.45	.30
◆ 595-TPD2EUSB30DRTR	TPD2EUSB30DRTR	SOT-3	2	7	1	8kV-9kV	10	0.7	-40 to 85	.58	.448	.396	.338

USB TRANSIENT VOLTAGE SUPPRESSORS

MOUSER STOCK NO.	Texas Instruments Part No.	Package	No. Of Channels	VBR @ II		ESD Protection	Leakage Current (Max.)(nA)	Capacitance (Typ.)(pF)	Supply Voltage (Max.)(V)	Price Each			
				(V) (Min.)	(mA) (Min.)					1	25	100	250
◆ 595-SN65220DBVR	SN65220DBVR	SOT-23-6	2	7	1	2kV-15kV	1	35	3.3	.92	.712	.633	.549
◆ 595-SN65220DBVT	SN65220DBVT	SOT-23-6	2	7	1	2kV-15kV	1	35	3.3	.91	.721	.654	.588
◆ 595-SN65220DBVTG4	SN65220DBVTG4	SOT-23-6	2	7	1	2kV-15kV	1	35	3.3	1.04	.82	.744	.593
◆ 595-SN65220YZBR	SN65220YZBR	DSBGA-4	2	7	1	2kV-15kV	1	35	3.3	.71	.562	.506	.44
◆ 595-SN65220YZBT	SN65220YZBT	DSBGA-4	2	7	1	2kV-15kV	1	35	3.3	.85	.66	.595	.536
◆ 595-SN65240P	SN65240P	PDIP-8	4	7	1	2kV-15kV	1	35	3.3	1.47	1.17	.906	.905
◆ 595-SN65240PW	SN65240PW	TSSOP-8	4	7	1	2kV-15kV	1	35	3.3	1.29	1.17	.906	.905
◆ 595-SN65240PWR	SN65240PWR	TSSOP-8	4	7	1	2kV-15kV	1	35	3.3	1.15	.915	.823	.775
◆ 595-SN75240P	SN75240P	PDIP-8	4	7	1	2kV-15kV	1	35	3.3	1.27	1.01	.78	.778
◆ 595-SN75240PW	SN75240PW	TSSOP-8	4	7	1	2kV-15kV	1	35	3.3	1.38	1.24	.985	.977
◆ 595-SN75240PWG4	SN75240PWG4	TSSOP-8	4	7	1	2kV-15kV	1	35	3.3	1.27	1.16	.888	.795
◆ 595-SN75240PWR	SN75240PWR	TSSOP-8	4	7	1	2kV-15kV	1	35	3.3	1.31	1.04	.936	.815

USB PORT ESD SOLUTION

MOUSER STOCK NO.	Texas Instruments Part No.	Package	No. Of Channels	VBR @ II		ESD Protection	Leakage Current (Max.)(nA)	IO Capacitance (Typ.)(pF)	Differential Capacitance (Typ.)(pF)	Price Each			
				(V) (Min.)	(mA) (Min.)					1	25	100	250
◆ 595-TPD1E10B06DPYR	TPD1E10B06DPYR	X2SON-2	1	6	1	30kV-30kV	100	12	10	.33	.19	.154	.112
◆ 595-TPD1E10B09DPYR	TPD1E10B09DPYR	X2SON-2	1	9.5	1	20kV-20kV	100	10	10	.33	.19	.154	.112
◆ 595-TPD4S014DSQR	TPD4S014DSQR	SON-10	4	6	1	2kV-15kV	1000	1.5	0.03	1.48	1.34	1.21	1.04

VGA PORT ESD SOLUTION W/LEVEL SHIFTER & MATCHING IMPEDANCE

MOUSER STOCK NO.	Texas Instruments Part No.	Package	No. Of Channels	VBR @ II		ESD Protection	Leakage Current (Max.)(nA)	IO Capacitance (Typ.)(pF)	Supply Voltage (Max.)(V)	Price Each			
				(V) (Min.)	(mA) (Min.)					1	25	100	250
◆ 595-TPD7S019-15DBQR	TPD7S019-15DBQR	SSOP-16	7	9	1	8kV-9kV	10	2.5	5.5	.73	.563	.501	.429

LCD/OLED DISPLAY BIAS SOLUTION

MOUSER STOCK NO.	Texas Instruments Part No.	Package	No. Of Channels	VGH (V)	VHL (V)	Analog Volt. AV/DD Max. (V)	Operating Temp. (°C)	Price Each			
								1	25	100	250
◆ 595-TPS65198RUYT	TPS65198RUYT	QFN-28	13	15	-3	20	-40 to +85	3.04	2.44	2.23	

