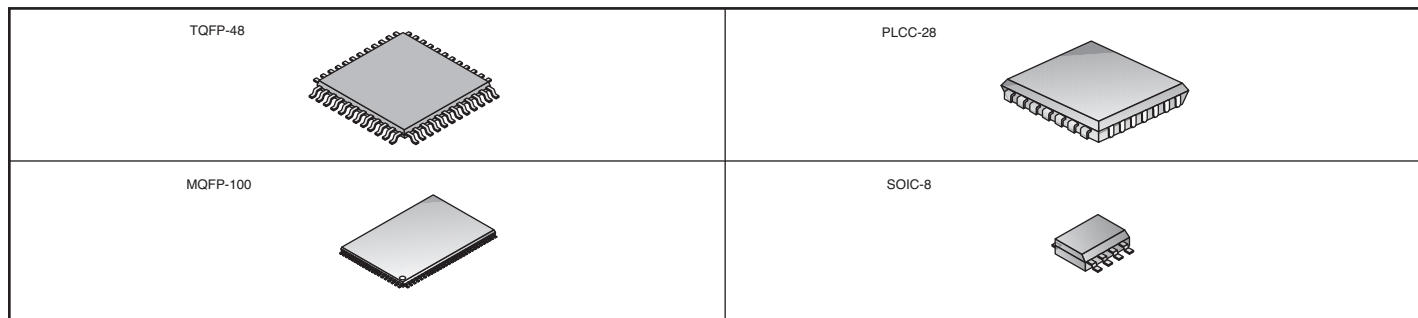


Products may be RoHS compliant.
Check mouser.com for RoHS status.



◆ Surface Mount Device

SUPERTEX HIGH VOLTAGE ANALOG SWITCH/MULTIPLEXER INTEGRATED CIRCUITS

These are low charge injection 8 or 16-channel high-voltage analog switch integrated circuit (IC) intended for use in applications requiring high voltage switching controlled by low voltage control signals, such as ultrasound imaging and printers.

Features:

- HVCMOS technology for high performance
- Very low quiescent power dissipation-10 μ A
- Output On-resistance typically 22 ohms
- Low parasitic capacitances
- DC to 10MHz analog signal frequency
- -60dB typical output off isolation at 5MHz
- CMOS logic circuitry for low power
- Excellent noise immunity
- On-chip shift register, latch and clear logic circuitry
- Flexible high voltage supplies
- Surface mount package available



RoHS Compliant

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	Output Channels	Supply Voltage (V)	Analog Signal Voltage (V)	Switch Current (A)	Switch Resistance (Ω)	Power Dissipation @TA=25°C (W)	Peak Analog Signal Current/Channel	Output Bleed Resistors	Price Each			
											1	100	500	1000
◆ 689-HV2201FG-G	HV2201FG-G	TQFP-48	8	200	180	± 2	24	1.0	3	No	11.78	9.80	9.05	8.68
◆ 689-HV2201PJ-G	HV2201PJ-G	PLCC-28	8	200	180	± 2	24	1.2	3	No	11.69	9.72	8.98	8.61
◆ 689-HV2301FG-G	HV2301FG-G	TQFP-48	8	200	180	± 2	24	1.0	3	Yes	11.97	9.95	9.20	8.82
◆ 689-HV2301PJ-G	HV2301PJ-G	PLCC-28	8	200	180	± 2	24	1.2	3	Yes	11.88	9.88	9.13	8.75
◆ 689-HV20220PJ-G	HV20220PJ-G	PLCC-28	8	200	180	± 2	24	1.2	3	No	16.51	13.73	12.69	12.17
◆ 689-HV2601FG-G	HV2601FG-G	TQFP-48	16	200	180	± 2	24	1.0	3	No	22.42	18.64	17.23	16.52
◆ 689-HV2701FG-G	HV2701FG-G	TQFP-48	16	200	180	± 2	24	1.0	3	Yes	22.80	18.96	17.52	16.80

SUPERTEX HIGH VOLTAGE ARRAY AMPLIFIER INTEGRATED CIRCUITS (MEMS DRIVER ICS)

HV25x family of high voltage amplifiers is designed for the next generation of Micro Electro Mechanical Systems (MEMS). The family features 32-channel non-inverting high voltage Amplifier Arrays capable of output swings up to 295V. To minimize external components, the amplifiers have fixed internal closed loop gain setting resistors. Supertex is the industry's first company to combine an array of low voltage sample-and-hold circuits with high voltage amplifiers on the same chip.



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• For Evaluation/Design Shortcut see Demo Boards

* Sample-and-hold amplifier array

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	Channels	Voltage HV _{OUT} Max. (V)	Quiescent Current I _{PP} /Chan-Typ	Slew Rate Typ. (V/ μ S)	Closed Loop Gain (V/V)	Feedback Resistance (M Ω)	HV _{Out} Current Capability-Max.			Output Current Limit	Price Each			
									Source (μ A)	Sink (μ A)	Cap Load (pF)		1	100	500	1000
◆* 689-HV256FG-G	HV256FG-G	MQFP-100	32	295	15	2	72	12	500	500	3000	Yes	207.10	172.22	159.14	152.60

SUPERTEX ELECTRONIC LINE SWITCH INTEGRATED CIRCUITS

These electronic switch ICs are designed as a replacement for the typical mechanical hook switch or electromechanical relays in telephones and answering machines. Multiple low-level inputs are provided for design versatility and may be controlled directly from logic circuitry or from mechanical switches. These ICs are line-powered and are especially useful in applications that require telephone operation when external power is lost or otherwise unavailable.



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• For Evaluation/Design Shortcut see Demo Boards

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	Breakdown Voltage V _{TPG} (V)	Switch Resistance (Ω)	Output Voltage V _{TP}		I _{TPG} Current Limiting		Input Voltage		Price Each			
					Min. (V)	Max. (V)	Min. (mA)	Max. (mA)	LS1, LS2 (V)	DP/DP (V)	1	100	500	1000
◆ 689-HT18LG-G	HT18LG-G	SOIC-8	350	18	16	20	200	300	20	20	1.41	1.17	1.08	1.04