

# ESD Protection Arrays, ESD Protectors and EMI Filters

ON Semiconductor®

RoHS Compliant This product is RoHS compliant.

ON Semiconductor Transient Protection

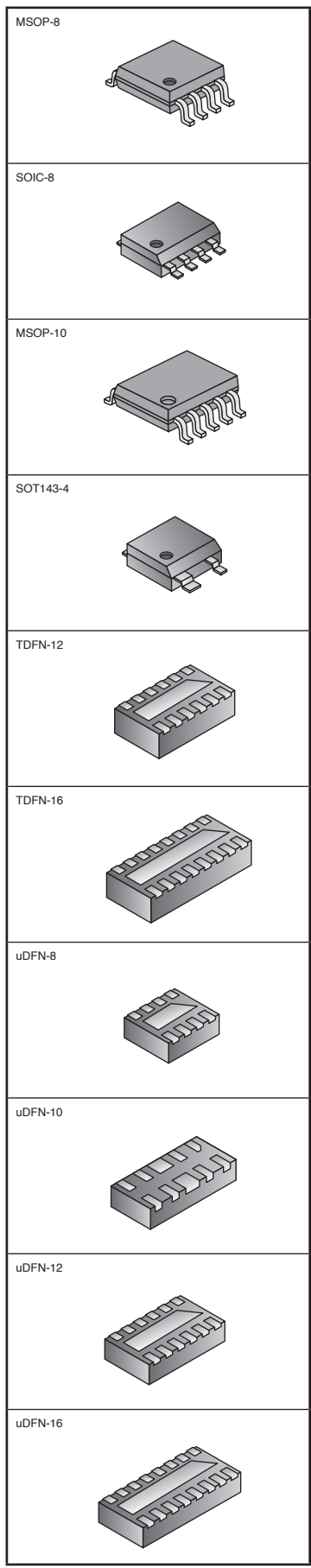
## LOW CAPACITANCE ESD ARRAYS

- Minimal capacitance change with temperature and voltage
- Storage Temperature Range -40°C to +150°C

PRODUCT NEW

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	On Semi Part No.	Package	ESD Protection (IEC)		Channels	Channel Input Capacitance (Max)(pF)	Price Each			
			±15kV	±15kV			1	10	50	100
<b>CM1216 Series</b>										
748-CM1216-06MR	CM1216-06MR	MSOP-8	±15kV		6	2	.96	.88	.80	.72
748-CM1216-08MR	CM1216-08MR	MSOP-10	±15kV		8	2	1.05	.96	.88	.79
<b>CM1241 Series</b>										
748-CM1241-04D4	CM1241-04D4	WDFN-8	±8kV, ±15kV		4	1.5, 53	.67	-	.63	.50
<b>ESDR0524 Series</b>										
863-ESDR0524PMUTAG	ESDR0524PMUTAG	UDFN10	±8kV		4	0.3	.36	.34	.32	.309



## 6 CHANNEL ESD PROTECTION ARRAY

- Features:
- Six channels of ESD protection
  - Low loading capacitance (3pF typical)
  - Low leakage current is ideal for battery-powered devices
  - Storage Temperature Range -65°C to +150°C
  - Operating Temperature Range -40°C to +85°C

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	On Semi Part No.	Package	ESD Protection		Channels	Channel Input Capacitance (Max) (pF)	Price Each			
			(IEC)	(HBM)			1	10	50	100
748-PACDN006MR	PACDN006MR	MSOP-8	±8kV	±15kV	6	5	.60	.55	.50	.45

## LOW CAPACITANCE ESD PROTECTION ARRAYS WITH BACKDRIVE PROTECTION: CM1223 SERIES

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	On Semi Part No.	Package	ESD Protection (IEC)	Channels	Channel Input Capacitance (Max)(pF)	Price Each			
						1	50	100	500
748-CM1223-02SR	CM1223-02SR	SOT-143-4	±15kV	2	1.5	.51	.47	.43	.38

## PICO GUARD XS™ ESD CLAMP ARRAY FOR HIGH SPEED DATA LINE PROTECTION

- Features:
- ESD protection for 4 pairs of differential channels to IEC61000-4-2 Level 4 at ±8kV contact discharge
  - Pass-through impedance matched clamp architecture
  - Flow-through routing for high-speed signal integrity
  - 100Ω matched impedance for each paired differential channel

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	On Semi Part No.	Package	ESD Protection (IEC)	Channels	Voltage Relative to GND (Max)(V)	Price Each			
						1	50	100	500
748-CM1233-08DE	CM1233-08DE	TDFN-16	±8kV	4	5.5	1.05	.94	.84	.803
748-CM1235-08DE	CM1235-08DE	TDFN-16	±8kV	4	5.5	.92	.83	.745	.707
748-CM1236-08DE	CM1236-08DE	TDFN-16	±8kV	4	5.5	1.05	.94	.836	.80

## SINGLE CHANNEL ESD PROTECTION

PRODUCT NEW

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	On Semi Part No.	Package	ESD Protection (IEC)	Clamp Voltage (V)	Breakdown Voltage (V)	Capacitance Max. (pF)	Price Each			
							1	50	100	500
863-CM1242-07CP	CM1242-07CP	WLCSP-2	±17kV	±9.8	7.6	5.8	.12	-	-	.099

## EMI FILTERS WITH INTEGRATED ESD PROTECTION

- Applications:
- Wireless Handsets
  - EMI Filtering for LCD and Camera Data Lines
  - EMI Filtering and Protection for I/O Ports and Keypads

PRODUCT NEW

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	On Semi Part No.	Package	ESD Protection (IEC)	Channels	Line Capacitance (Typ)(pF)	Resistance (Ω)	Price Each			
							1	50	100	250
863-EMI4182MTTAG	EMI4182MTTAG	WDFN-10	±15kV	2	0.9	8.00	.50	-	.40	.35
863-EMI7204MUTAG	EMI7204MUTAG	uDFN-8	±16	4	24.2	10	.26	.23	.208	.182
863-EMI7206MUTAG	EMI7206MUTAG	uDFN-12	±16	6	24.2	10	.30	.29	.27	.26
863-EMI7208MUTAG	EMI7208MUTAG	uDFN-16	±16	8	24.2	10	1.41	1.16	.97	.825

## EMI FILTER ARRAYS WITH ESD PROTECTION

- Four, six, and eight channels of EMI filtering with integrated ESD protection
- Π-style EMI filters in a capacitor-inductor-capacitor (C-L-C) network
- Π-style EMI filters in a capacitor-resistor-capacitor (C-R-C) network
- Increased robustness against vertical impacts during manufacturing process
- Storage Temperature Range -65°C to +150°C
- Operating Temperature Range -40°C to +85°C

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	On Semi Part No.	Package	ESD Protection		Channels	Pkg Size (mm)	Attenuation (dB)	Price Each			
			(IEC)	(HBM)				1	50	100	500
<b>CM1460 Series</b>											
748-CM1460-06DE	CM1460-06DE	TDFN-12	±15kV	±30kV	6	3x1.35	35	.75	.62	.50	.472
<b>CM1690 Series</b>											
748-CM1690-04DE	CM1690-04DE	uDFN-8	±15kV	±30kV	4	1.7x1.35	35	.96	.80	.72	.64
<b>CM1461 Series</b>											
748-CM1461-08DE	CM1461-08DE	TDFN-16	±15kV	±30kV	8	4x1.6	20	.68	.60	.52	.44
<b>CM1430, CM1431 Series</b>											
748-CM1431-06DE	CM1431-06DE	TDFN-12	±15kV	±30kV	6	2.5x1.35	35	.58	.49	.39	.375
748-CM1430-06DE	CM1430-06DE	TDFN-12	±15kV	±30kV	6	2.5x1.35	20	.62	.53	.466	.418
<b>CM1693 Series</b>											
748-CM1693-04DE	CM1693-04DE	uDFN-12	±18kV	-	4	2.5x1.35	35	.53	.50	.399	.343
863-CM1693-08DE	CM1693-08DE	uDFN-12	±18kV	-	8	2.5x1.35	35	.61	.52	.468	.343