

ESD Protection Arrays, ESD Protectors & EMI Filters



california micro devices

CMD LOW CAPACITANCE ESD ARRAYS

- Channel loading capacitance of 1.6 pF typical
- Channel I/O to GND capacitance difference of 0.04pF typical
- Mutual capacitance of 0.13pF typical
- Minimal capacitance change with temperature and voltage
- Each I/O pin can withstand over 1000 ESD strike
- Storage Temperature Range -40 to +150 °Cs

CM1216 Series

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	CMD Part Number	Package	ESD Protection (IEC)	Price Each			
				1	10	50	100
748-CM1216-06MR	CM1216-06MR	MSOP-8	±15kV				
748-CM1216-06SM	CM1216-06SM	SOIC-8	±15kV				
748-CM1216-08MR	CM1216-08MR	MSOP-10	±15kV				

CM1215 Series

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	CMD Part Number	Package	ESD Protection (IEC)	Price Each			
				1	50	100	500
748-CM1215-01SO	CM1215-01SO	SOT23-3	±15kV				

CMD 6 CHANNEL ESD PROTECTION ARRAY

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

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	CMD Part Number	Package	ESD Protection		Price Each			
			(IEC)	(HBM)	1	10	50	100
748-PACDN006MR	PACDN006MR	MSOP-8	±8kV	±15kV				

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

- 2, 4, and 8 channels of ESD protection with integrated backdrive protection on all lines
- Low channel input capacitance of 1.0pF typical
- Minimal capacitance change with temperature & voltage
- Channel I/O to Gnd capacitance difference of 0.02pF typical is ideal for differential signals
- Mutual capacitance between signal pin and adjacent signal pin - 0.11pF typical
- Zener diode protects supply rail and eliminates the need for external by-pass capacitors
- Pin compatible with CM1213-02, -04, and -08
- Each I/O pin can withstand over 1000 ESD strikes
- Storage Temperature Range -65 to +150°C
- Operating Temperature Range -40 to +85°C

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	CMD Part Number	Package	ESD Protection (IEC)	Channels	Price Each			
					1	50	100	500
748-CM1223-02SR	CM1223-02SR	SOT143-4	±15kV	2				
748-CM1223-04SO	CM1223-04SO	SOT23-6	±15kV	4				

CMD EMI FILTER ARRAYS WITH ESD PROTECTION

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

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	CMD Part Number	Package	ESD Protection		Chan.	Pkg Size (mm)	Attenuation (dB)	Price Each			
			(IEC)	(HBM)				1	50	100	500
CM1460 Series											
748-CM1460-04DE	CM1460-04DE	TDFN-8	±15kV	±30kV	4	2 x 2	35				
748-CM1460-06DE	CM1460-06DE	TDFN-12	±15kV	±30kV	6	3 x 1.35	35				
748-CM1460-08DE	CM1460-08DE	TDFN-16	±15kV	±30kV	8	4 x 1.6	35				
CM1690 Series											
748-CM1690-04DE	CM1690-04DE	uDFN-8	±15kV	±30kV	4	1.7 x 1.35	35				
748-CM1690-06DE	CM1690-06DE	uDFN-12	±15kV	±30kV	6	2.5 x 1.35	35				
748-CM1690-08DE	CM1690-08DE	uDFN-16	±15kV	±30kV	8	3.3 x 1.35	35				
CM1461 Series											
748-CM1461-04DE	CM1461-04DE	TDFN-8	±15kV	±30kV	4	2 x 2	20				
748-CM1461-06DE	CM1461-06DE	TDFN-12	±15kV	±30kV	6	3 x 1.35	20				
748-CM1461-08DE	CM1461-08DE	TDFN-16	±15kV	±30kV	8	4 x 1.6	20				
CM1430,CM1431 Series											
748-CM1431-06DE	CM1431-06DE	TDFN-12	±15kV	±30kV	6	2.5 x 1.35	35				
748-CM1431-08DE	CM1431-08DE	TDFN-16	±15kV	±30kV	8	3.3 x 1.35	35				
748-CM1431-04DE	CM1431-04DE	TDFN-8	±15kV	±30kV	4	1.7 x 1.35	35				
748-CM1430-06DE	CM1430-06DE	TDFN-12	±15kV	±30kV	6	2.5 x 1.35	20				
748-CM1430-08DE	CM1430-08DE	TDFN-16	±15kV	±30kV	8	3.3 x 1.35	20				
748-CM1430-04DE	CM1430-04DE	TDFN-8	±15kV	±30kV	4	1.7 x 1.35	20				
CM1409 Series											
748-CM1409-06DE	CM1409-06DE	TDFN-12	±15kV	±30kV	6	3 x 1.35	35				
748-CM1409-08DE	CM1409-08DE	TDFN-16	±15kV	±30kV	8	4 x 1.6	35				

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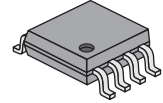
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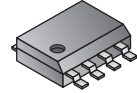
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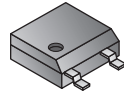
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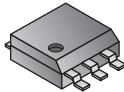
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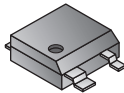
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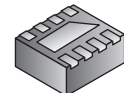
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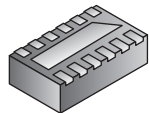
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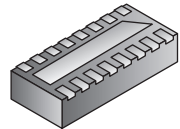
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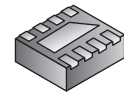
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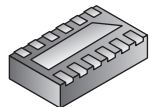
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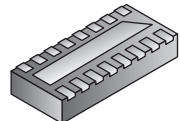
TDFN-16



uDFN-8



uDFN-12



TDFN-16