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Enabling Energy Efficient Solutions

ON Semiconductor®



Product Overview

Created on: 11/24/2010

CSPEMI606: 6-Channel LCD Port CSP EMI Filter Array with ESD Protection

For complete documentation, see the [data sheet](#)

Product Description

The CSPEMI606 and CSPEMI608 are EMI filter arrays with ESD protection, which integrate six and eight Pi- filters (C-R-C), respectively. The CSPEMI606/608 has component values of 15pF- 100W-15pF. These devices include ESD protection diodes on every pin, which provide a very high level of protection for sensitive electronic components that may be subjected to electrostatic discharge (ESD). The ESD diodes connected to the filter ports are designed and characterized to safely dissipate ESD strikes of $\pm 15\text{kV}$, beyond the maximum requirement of the IEC 61000-4-2 international standard. Using the MIL-STD-883 (Method 3015) specification for Human Body Model (HBM) ESD, the pins are protected for contact discharges at greater than $\pm 30\text{kV}$.

Features

- Six (CSPEMI606) and eight (CSPEMI608) channels of EMI filtering
- Better than 30dB of attenuation at 1GHz to 3GHz
- Chip Scale Package features extremely low lead inductance for optimum filter and ESD performance

Benefits

- Mates perfectly to popular board to board connectors
- Attenuates noise to help receiver sensitivity in the cellular bands
- Compact, space saving packaging

Applications

- EMI filtering & ESD protection for high-speed I/O data ports
- LCD data lines in clamshell wireless handsets
- EMI filtering for high-speed data lines

End Products

- Wireless handsets / cell phones, Notebook computers

Selected Electrical Specifications

Symbol	Boundary	Value	Unit	Condition
R	typ	100		
C	typ	30	pF	at 2.5V
I_R	max	0.2	$i_{\zeta} \frac{1}{2}A$	$V_R = 3.3V$
$V_{(BR)}$	typ	6.8	V	at I Diode = 10 mA

Package Availability

Type	Pb-free	Standard
WLCSP15, 2.96x1.33	✓	

For more information please contact your local sales support at www.onsemi.com