

Product Overview

CSPEMI202A: EMI Filter with ESD Protection, Headset Microphone

For complete documentation, see the data sheet.

The CSPEMI202AG is a dual low-pass filter array integrating two pi-style filters (C-R-C) that reduce EMI/RFI emissions while at the same time providing ESD protection. This part is custom designed to interface with a microphone port on a cellular telephone or similar device. Each high quality filter provides more than 35dB attenuation in the 800-2700 MHz range. These pi-style filters support bidirectional filtering, controlling EMI both to and from a microphone element. They also support bipolar signals, enabling audio signals to pass through without distortion.

Features

- Two lines of EMI suppression with integrated ESD protection
- Extremely low lead inductance for optimum filter and ESD performance
- Cellular phones, notebook computers, netbook computers, portable navigation devices

Benefits

- Suppresses noise off of strong analog and digital audio lines, provides ESD protection in a monolithic Chip Scale Package
- Using Chip Scale Packaging to eliminate the long wires associated

Applications

- Audio interfaces on wireless devices

Part Electrical Specifications

Product	Compliance	Status	Interface	Number of Lines	Filter Type	R Typ (Ω)	C Typ (pF)	I_R Max (μ A)	$V_{(BR)}$ Typ (V)	V_{RWM} Max (V)	Package Type
CSPEMI202AG	Pb-free	Active	Audio	2	R-C	68	94	1	6.8	5	WLCSP-5
	Halide free		General I/O								
CSPEMI202FCTAG	Pb-free Halide free	Active	Audio General I/O	2	R-C	68	94	1	6.8	5	WLCSP-5

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

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