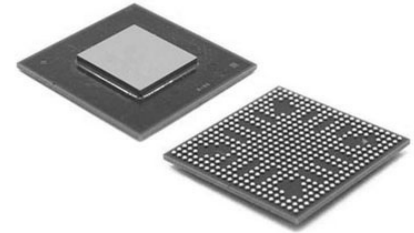


LC (Pi) EMI Filter 5th Order Low Pass 6Channel L = 34nH (Total), C = 28.5pF (Total)
30mA 15-WFBGA, WLCSP

Manufacturers	ON Semiconductor, LLC
Package/Case	CSP15
Product Type	EMI/RFI Components
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for CM1451-06CP or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The CM1451 comprises a family of inductor-capacitor (L-C) based EMI filter arrays with integrated ESD protection in a CSP form factor. The CM1451-06 and CM1451-08 are configured in 6 and 8 channel formats respectively. Each EMI filter channel of the CM1451 is implemented as a 5-pole L-C filter where the component values are 9.5pF-17nH-9.5pF-17nF-9.5pF. The CM1451's roll-off frequency at -10dB attenuation is 400MHz and can be used in applications where the data rates are as high as 160Mbps while providing greater than 35dB over the 800MHz to 2.7GHz frequency range. The parts integrate 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 protection diodes connected to the filter ports safely dissipate ESD strikes of ±15kV, exceeding the Level 4 requirement of the IEC61000-4-2 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 ±30kV.

Features

Excellent attenuation of noise in the wireless carrier bands

Suppressed EMI assists in improving handset performance in Total Isotropic Sensitivity testing, a requirement to get agency and carrier approvals

Chip Scale Package (CSP) features extremely low lead inductance for optimum filter and ESD performance

Space saving benefits from use of 0.5mm pitch CSP

Protects against the most aggressive ESD events

Application

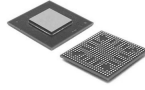
ONSEMI

Related Products



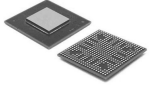
[CM1624-08DE](#)

ON Semiconductor, LLC
uDFN-16



[CM1422-03CP](#)

ON Semiconductor, LLC
CSP-20



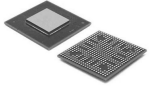
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ON Semiconductor, LLC
CSP



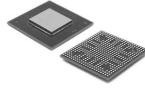
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ON Semiconductor, LLC
WLCSP-15(567BR)



[CM1451-08CP](#)

ON Semiconductor, LLC
CSP20



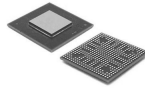
[CM1442-08CP](#)

ON Semiconductor, LLC
CSP20



[CM1457-04CP](#)

ON Semiconductor, LLC
WLCSP-10



[CM1442-06CP](#)

ON Semiconductor, LLC
CSP-15