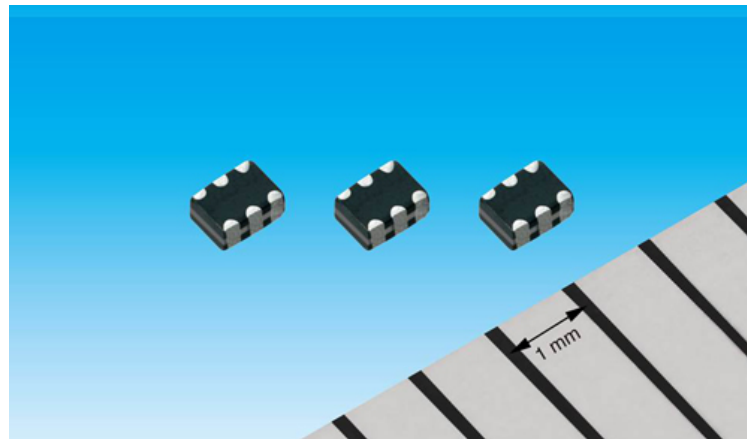


Jun 17, 2016

Panasonic Commercializes Industry-first*1 "Common mode Noise Filter" corresponding to MIPI C-PHY



"Common mode Noise Filter" corresponding to MIPI C-PHY

(June 2016, Panasonic)

Panasonic commercialized industry-first *1 "common noise filter" corresponding to the latest specification C-PHY(Ver1.0) of high speed data transmission MIPI, contributing to large capacity data transmission of mobile devices such as smart phones.

Osaka, Japan - Panasonic Corporation announced today that it has developed the industry-first* "Common mode Noise Filter[1]" corresponding to the high speed data transmission system MIPI(Mobile Industry Processor Interface Alliance) C-PHY[2] of mobile devices such as smart phones, tablets. Samples are available from July, 2016.

For mobile devices such as smart phones and tablets, larger capacity and higher speed of digital data are required in accordance with the high resolution trend of cameras and displays as well as multi-camera trend. In order to achieve high speed transmission, the MIPI C-PHY, which is the new specification of the high speed data transmission system MIPI, has been established and will be released to the market for camera use within 2016. In the mobile devices represented by smart phone, a large amount of digital data is being transmitted and received between the camera and the display. The common mode noise filter used to remove the generated noises is required correspond to the new specification. Panasonic has commercialized the industry-first*1 "Common mode Noise Filter" corresponding to MIPI C-PHY using its unique plating fine coil process and ceramic multilayer process.

This new product has the following features:

1. First in industry*1, corresponding to high speed, large capacity new transmission specification MIPI C-PHY(ver.1.0) Corresponding to C-PHY(ver.1.0) data transmission rate 2.5 Gsps(=5.7Gbps/Trio*2),approximately 1.5times*3 the conventional system(MIPI D-PHY[3]).
2. Unique plating fine coil process and ceramic multilayer process enable compact size Single type dimension : 0.9 X 0.68 X 0.40mm typ.
 Compact size enables reduction of wiring area of high speed data transmission lines Around 40 % Reduction of mounting area comparing with conventional system(MIPI D-PHY) in terms of same amount of data transmission.

3. Reduction of 1GHz to 5GHz wide band zone common mode noise
Wireless receiving performance up of equipped devices

*1 :As a high speed transmission noise filter corresponding to MIPI C-PHY as of June 17, 2016 (Panasonic data)

*2 :Three transmission lines

*3 :With same signal lines

Suitable applications:

Noise removal for cameras and displays of mobile devices with wire-less functions such as smart phones, tablets, and wearable devices etc.

[Term Descriptions]

[1] Common mode noise filter

Common mode noise is generated from two lines of differential transmission caused by the wiring length difference designed on the printed circuit board, IC output unbalances and noises through stray capacitances. Common mode noise filter is used to remove this noise.

[2] MIPI C-PHY

One of the data interface specifications MIPI (Mobile Industry Processor Interface Alliance) for display and camera of mobile devices such as smart phones, tablets etc.

The latest specification established after MIPI D-PHY, M-PHY which have been launched on to the market.

[3] MIPI D-PHY

The most common type of high speed data transmission specification of digital data interface for current mobile devices.

About Panasonic

Panasonic Corporation is a worldwide leader in the development of diverse electronics technologies and solutions for customers in the consumer electronics, housing, automotive, enterprise solutions and device industries. Since its founding in 1918, the company has expanded globally and now operates 474 subsidiaries and 94 associated companies worldwide, recording consolidated net sales of 7.553 trillion yen for the year ended March 31, 2016. Committed to pursuing new value through innovation across divisional lines, the company uses its technologies to create a better life and a better world for its customers. To learn more about Panasonic:

<http://www.panasonic.com/global>.

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