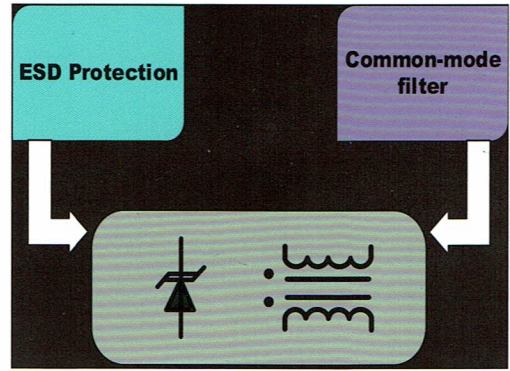


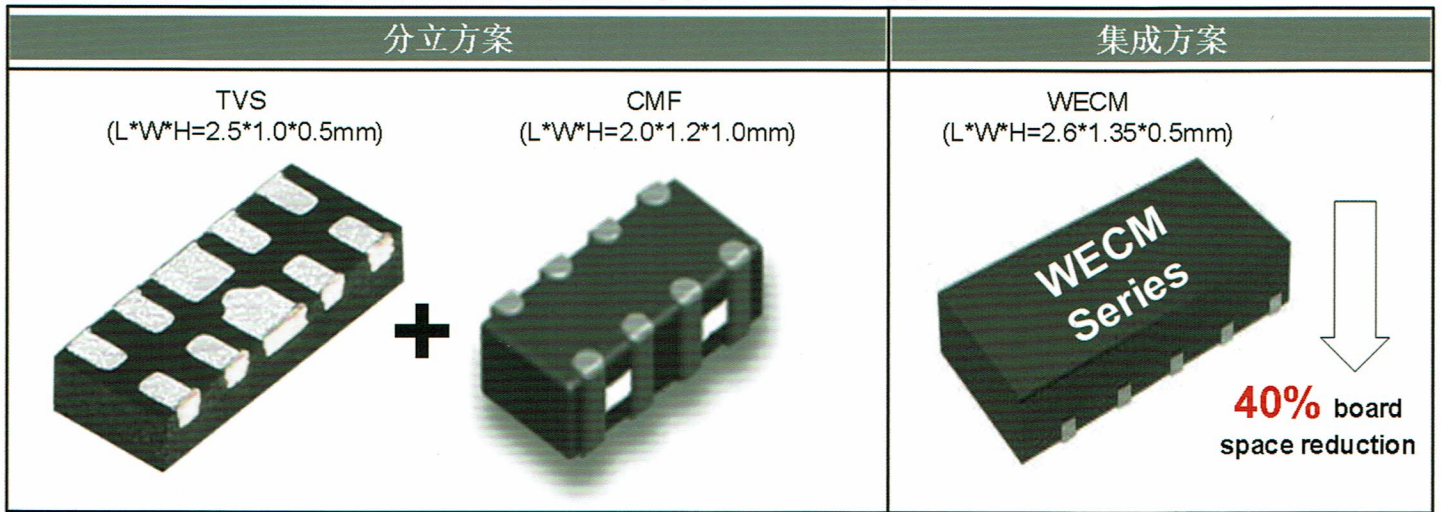
# ESD&EMI系列产品介绍

## 1. 产品简介

Wayon WECM系列产品设计用于移动设备高速数据传输端口的EMI噪声滤除和ESD静电保护，采用行业领先的Si材料半导体共模电感技术，集成多路超低电容TVS阵列，微小化的DFN封装，高共模抑制比，超宽的差模频带，以及超低的ESD钳位电压，为诸如USB, HDMI, MHL, MIPI等高速数据传输系统的EMC能力改善和ESD静电防护提供重要支持。



采用ESD&CMF芯片集成方案，为分立方案的用户节省40%的PCB空间。



## 2. 产品特性

### □ 插入损耗 - Insertion loss

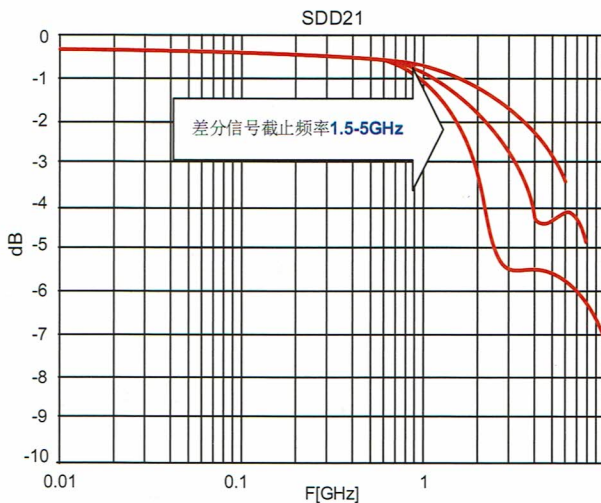


Figure 1: Differential Mode Attenuation ( $Z_{0 \text{ diff}} = 100\Omega$ )

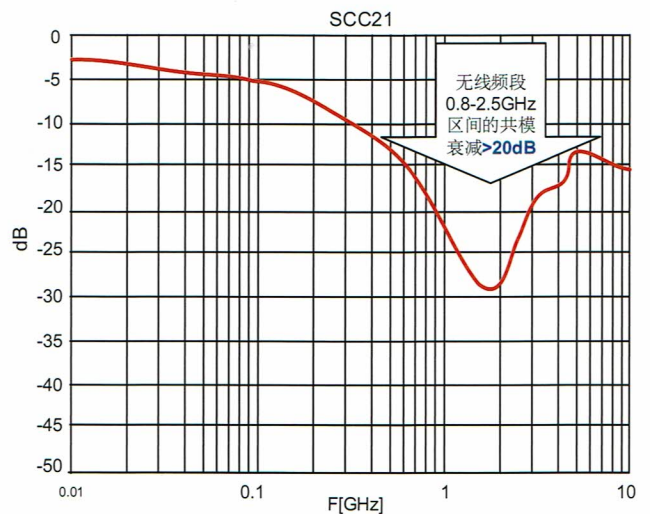


Figure 2: Common Mode Attenuation ( $Z_{0 \text{ com}} = 50\Omega$ )



□信号完整性- Eye Diagram Template

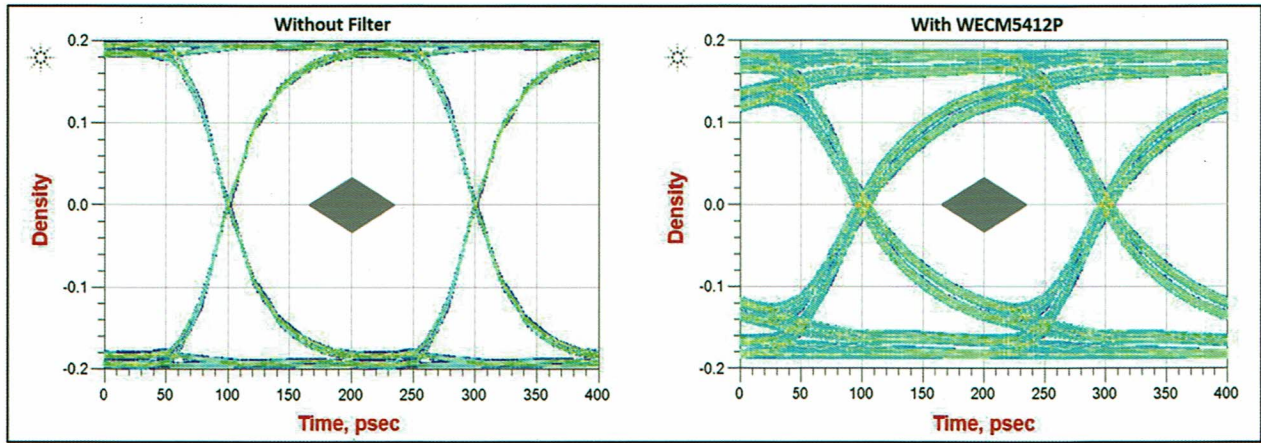


Figure 3: USB 3.0 Eye Diagram Test for 5Gbps Data Rate

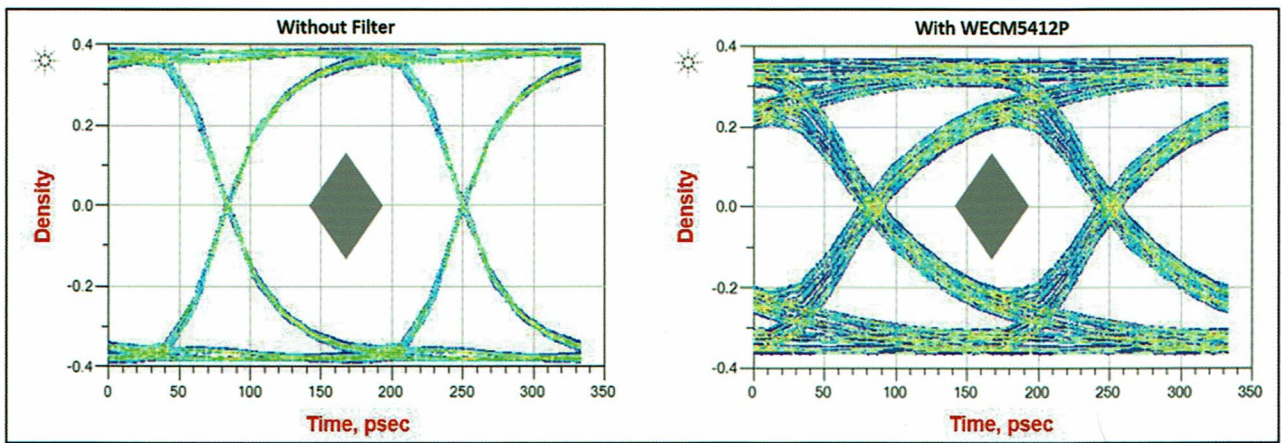


Figure 4: HDMI 2.0 Eye Diagram Test for 6Gbps Data Rate

3.产品系列

PART ID	Number of lanes			Speed class		VRWM (V)	Cj (PF) Typical	R I/O (Ω) Typical	DM Bandwidth (MHz) (α-3dB)	Common-mode attenuation				Package	Status
	1	2	3	A	B					900M	1.5G	2.4G	5.0G		
WECM5411P	●			●		5	0.8	6	1.7G		-22dB	-22dB	-17dB	DFN2.6*1.35-10L	Active
WECM5412P		●			●	5	0.8	6	4G	-20dB	-21dB	-19dB	-15dB	DFN2.6*1.35-10L	Active
WECM5413P		●			●	5	0.5	6	5G	-20dB	-21dB	-19dB	-15dB	DFN2.6*1.35-10L	Active
WECM3413P		●			●	3.3	0.5	6	5G	-22dB	-24dB	-18dB		DFN2.6*1.35-10L	Active
WECM5211N	●				●	5	0.8	6	1.7G		-22dB	-22dB	-17dB	DFN1.6*1.35-6L	Preliminary
WECM5212N	●				●	5	0.8	6	4G	-20dB	-21dB	-19dB	-15dB	DFN1.6*1.35-6L	Preliminary
WECM5213N	●				●	5	0.5	6	5G	-20dB	-21dB	-19dB	-15dB	DFN1.6*1.35-6L	Preliminary
WECM3213N	●				●	3.3	0.5	6	5G	-22dB	-24dB	-18dB		DFN1.6*1.35-6L	Preliminary
WECM5611F			●	●		5	0.8	6	1.7G		-22dB	-22dB	-17dB	DFN4.0*1.35-16L	Preliminary
WECM5612F			●		●	5	0.8	6	4G	-20dB	-21dB	-19dB	-15dB	DFN4.0*1.35-16L	Preliminary
WECM5613F			●		●	5	0.5	6	5G	-20dB	-21dB	-19dB	-15dB	DFN4.0*1.35-16L	Preliminary
WECM3613F			●		●	3.3	0.5	6	5G	-22dB	-24dB	-18dB		DFN4.0*1.35-16L	Preliminary

Speed Class A

- MIPI D-PHY (DSI & CSI)
- USB 2.0, MHL 2.0
- HDMI 1.3/1.4

Speed Class B

- Speed Class 1 interfaces
- MIPI M-PHY (DSI & CSI)
- USB 3.0

Speed Class B

- USB 3.1 Gen1
- HDMI 2.0
- Display Port 1.2