

# SPECIFICATION OF WCM-HS SERIES

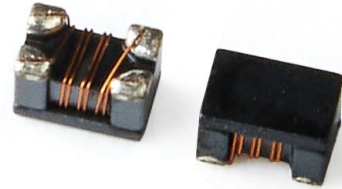
## FEATURES

Low profile and very small size SMD Design,  
Wire-Wound Chip structure with standard 0504  
and 0805 size, with best EMI suppression effect  
but least impact to High Speed signal integrity.



## APPLICATIONS

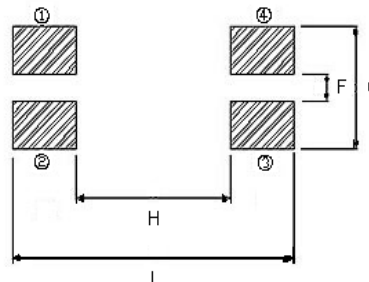
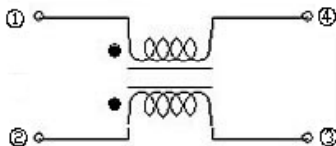
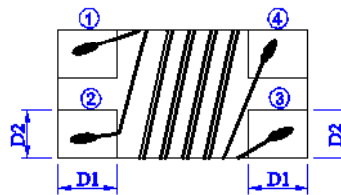
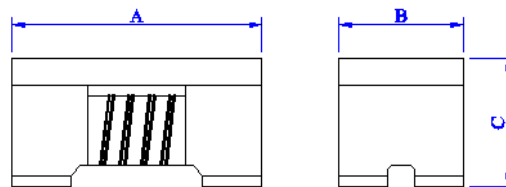
High speed differential signal lines.  
DVI, Display Port, USB2.0, USB3.0, USB3.1, USB3.2 etc.



## ORDERING CODE

**WCM - 2012HS - 900 T**  
(1) (2) (3) (4) (5)

- (1) PRODUCT TYPE CODE
- (2) PRODUCT SIZE CODE
- (3) DESIGN CODE
- (4) IMPEDANCE
- (5) TAPING



## APPEARANCE & DIMENSIONS

UNIT:mm (inch)

SIZE CODE	A	B	C	D1 TYP	D2 TYP	F TYP	G TYP	H TYP	I TYP
WCM-1210HS (0504)	1.20±0.20 (0.047±0.008)	1.00±0.20 (0.039±0.008)	0.90±0.20 (0.035±0.008)	0.36 (0.014)	0.38 (0.015)	0.30 (0.012)	1.20 (0.047)	0.60 (0.024)	1.50 (0.059)
WCM-2012HS (0805)	2.00±0.20 (0.079±0.008)	1.20±0.20 (0.047±0.008)	1.20±0.20 (0.047±0.008)	0.45 (0.018)	0.40 (0.016)	0.40 (0.016)	1.20 (0.047)	0.80 (0.031)	2.60 (0.102)

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# COMMON MODE CHOKE → WCM-1210HS SERIES

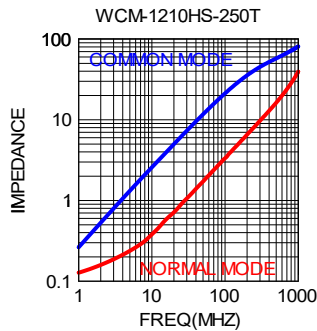
## ELECTRICAL CHARACTERISTICS

ORDERING CODE	Impedance ( $\Omega$ )/100MHz	Tolerance $\pm\%$	CUT-OFF FREQUENCY (GHz)Typ.	DC Resistance ( $\Omega$ )max	Rated Current (mA)max
WCM-1210HS-250T	25	25%	7.5	0.25	420
WCM-1210HS-600T	60	25%	6.0	0.25	400
WCM-1210HS-900T	90	25%	6.0	0.30	400

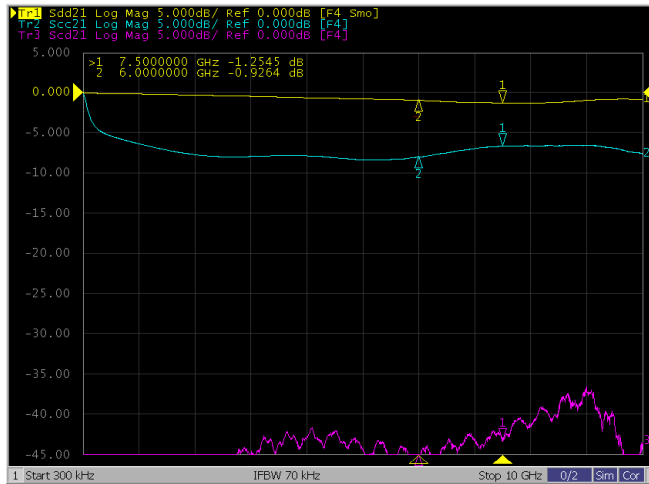
■Application: DVI, Display Port, USB3.1, USB3.2

### WCM-1210HS-250T

#### 1. Electrical Characteristic Curve

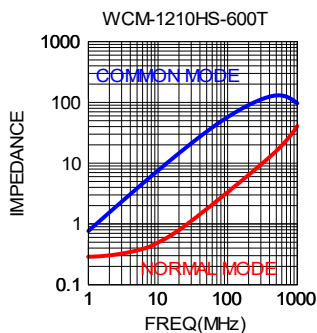


#### 2. Insertion Loss Curve

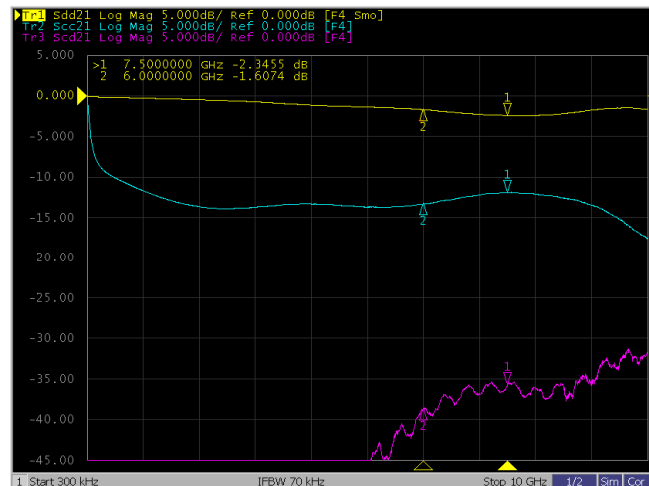


### WCM-1210HS-600T

#### 1. Electrical Characteristic Curve



#### 2. Insertion Loss Curve



※IDC: Based on Temperature increase 40°C

※Operating temperature range : -25 to +85°C (including self-generated heat)

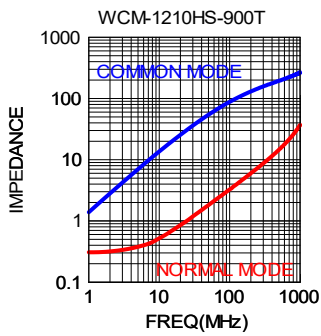
\* Design as Specification which Customer Requested .

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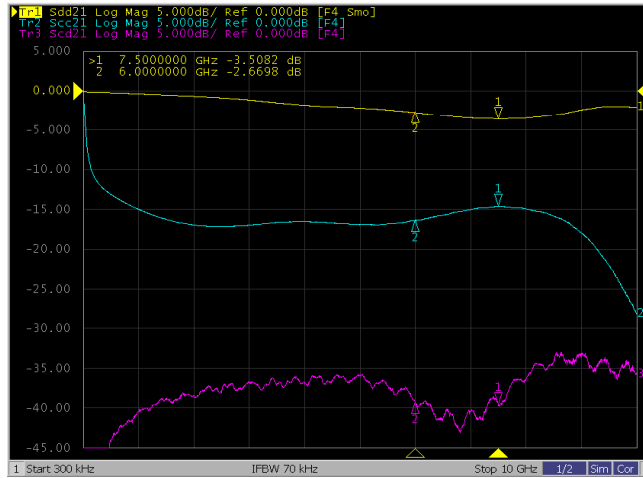
# COMMON MODE CHOKE → WCM-1210HS SERIES

WCM-1210HS-900T

## 1. Electrical Characteristic Curve



## 2. Insertion Loss Curve



- ※IDC:Based on Temperature increase 40°C
- ※Operating temperature range : -25 to +85°C (including self-generated heat)
- \* Design as Specification which Customer Requested .

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# COMMON MODE CHOKE → WCM-1210 SERIES

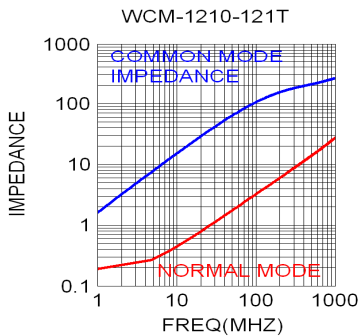
## ELECTRICAL CHARACTERISTICS

ORDERING CODE	Impedance (Ω)/100MHz	Tolerance ±%	CUT-OFF FREQUENCY (GHz)Typ.	DC Resistance (Ω)max	Rated Current (mA)max
WCM-1210-121T	120	25%	5.0	0.30	400
WCM-1210-161T	160	25%	2.5	0.35	350

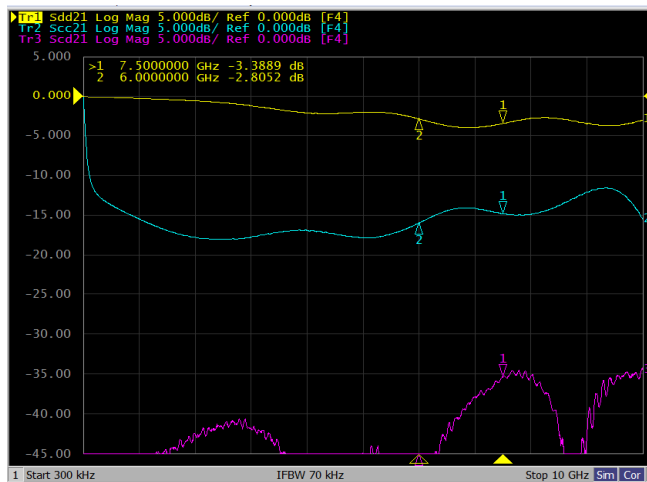
■Application: DVI, Display Port, USB2.0, USB3.0

### WCM-1210-121T

#### 1. Electrical Characteristic Curve

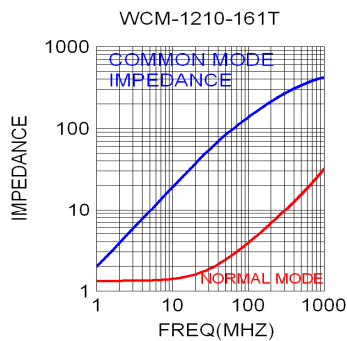


#### 2. Insertion Loss Curve

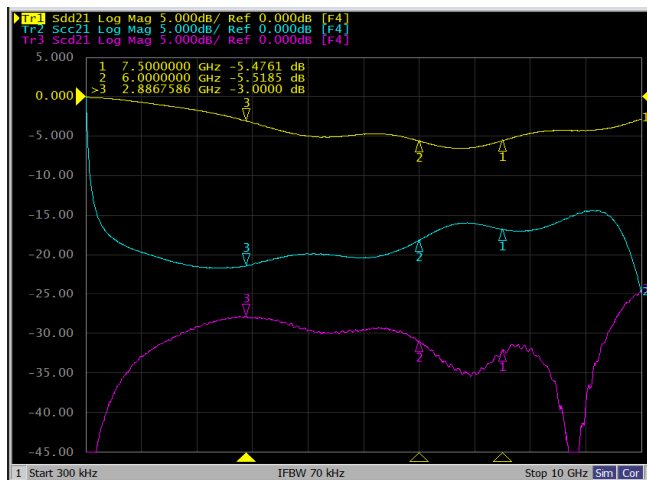


### WCM-1210-161T

#### 1. Electrical Characteristic Curve



#### 2. Insertion Loss Curve



※IDC: Based on Temperature increase 40°C

※Operating temperature range : -25 to +85°C (including self-generated heat)

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# COMMON MODE CHOKE → WCM-2012HS SERIES

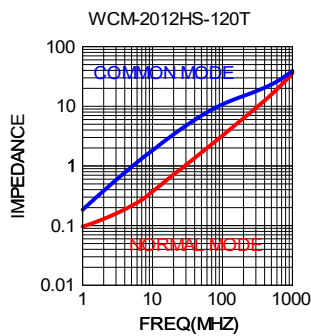
## ELECTRICAL CHARACTERISTICS

ORDERING CODE	Impedance (Ω)/100MHz	Tolerance ±%	CUT-OFF FREQUENCY (GHz)Typ.	DC Resistance (Ω)max	Rated Current (mA)max
WCM-2012HS-120T	12	25%	7.5	0.20	450
WCM-2012HS-240T	24	25%	7.5	0.25	420
WCM-2012HS-320T	32	25%	7.5	0.25	400
WCM-2012HS-670T	67	25%	6.0	0.25	400
WCM-2012HS-900T	90	25%	6.0	0.30	400

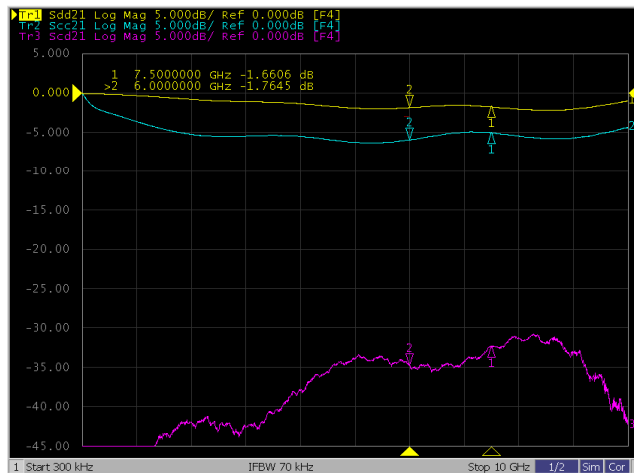
■Application:DVI, Display Port, USB3.1, USB3.2

WCM-2012HS-120T

1. Electrical Characteristic Curve

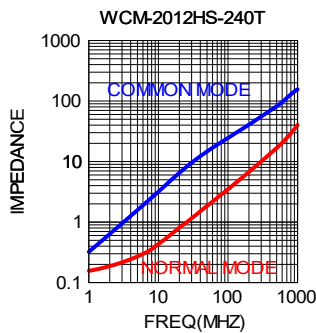


2. Insertion Loss Curve

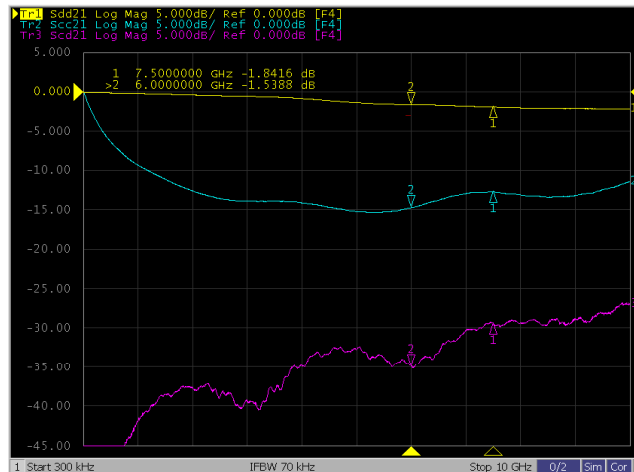


WCM-2012HS-240T

1. Electrical Characteristic Curve



2. Insertion Loss Curve



※IDC:Based on Temperature increase 40°C

※Operating temperature range : -25 to +85°C (including self-generated heat)

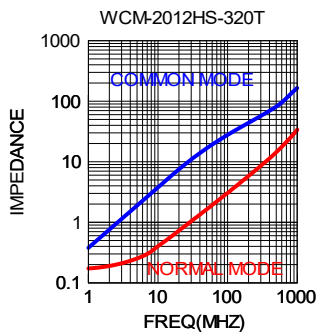
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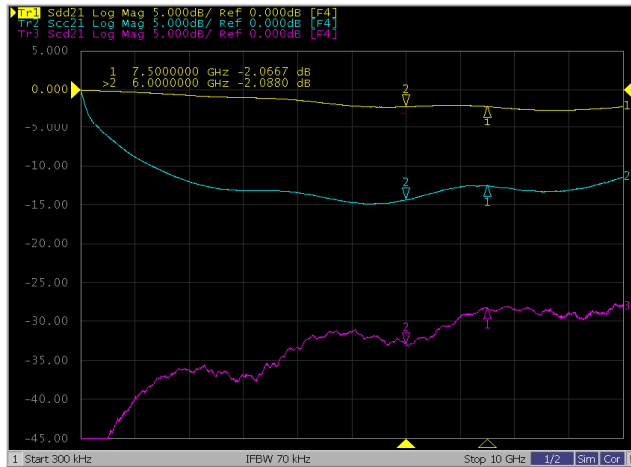
# COMMON MODE CHOKE → WCM-2012HS SERIES

WCM-2012HS-320T

1. Electrical Characteristic Curve

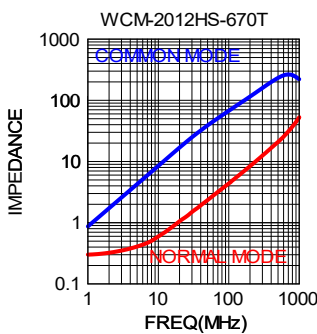


2. Insertion Loss Curve

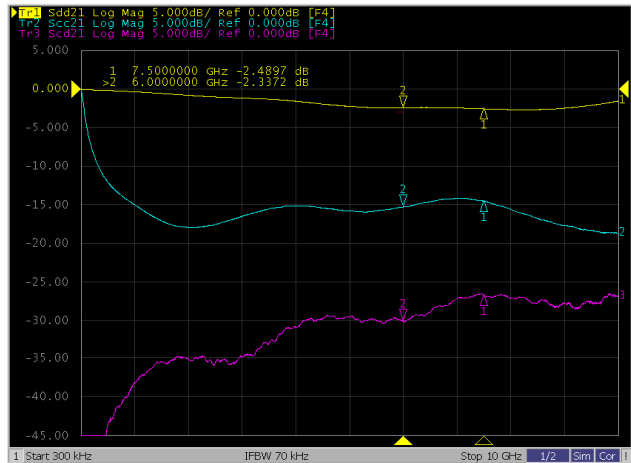


WCM-2012HS-670T

1. Electrical Characteristic Curve

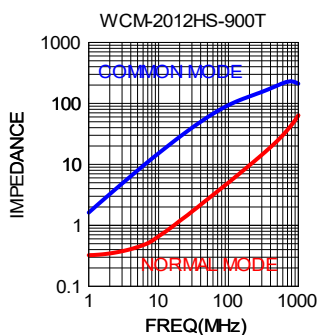


2. Insertion Loss Curve

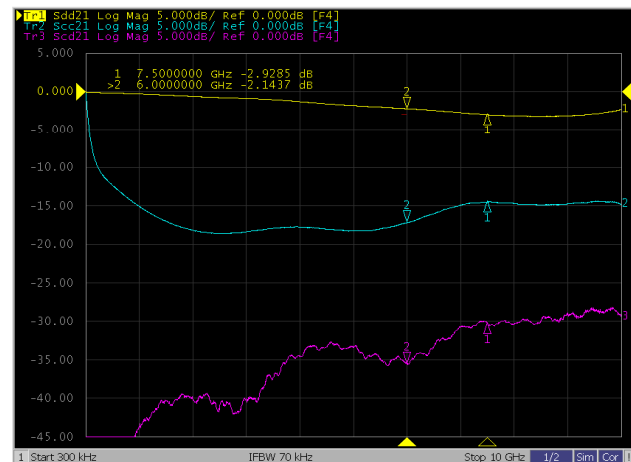


WCM-2012HS-900T

1. Electrical Characteristic Curve



2. Insertion Loss Curve



※IDC: Based on Temperature increase 40°C

※Operating temperature range : -25 to +85°C (including self-generated heat)

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