C-PHY Filter Datasheet

HF RoHS

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Functional Block Diagram



Description

Littelfuse LPF Series is a common mode noise filter that covers the specification of the requirements for high-speed differential serial interfaces, corresponding to new high-speed data transmission specification, like C-PHY.

Features & Benefits

- Effective for suppressing common mode noise and almost no effect for highspeed differential data line
- Ultra-small size as low as 0.90 X 0.68 X 0.45 mm
- Ceramic based SMD component

Applications

- Mobile phone and tablet
- Portable/wearable devices
- Other consumer devices

- Non-polarized product
- Conforming to RoHS directive
- Ultra-small size
- High voltage

Electrical Specifications

Part Number	Common Mode Impedance (Ω) @ 100 Mhz	Max DC Resistance (Ω) ¹	Minimum Insulation Resistance (MΩ) @5 V	Max Rated Current (mA) ¹		
LPF090703A250TG	25 (+/-25%)	5	10	80		
LPF090703A350TG	35 (+/-25%)	8	10	70		

Note:

1. Test condition 25 °C±2 °C Operating Temperature: -40 °C ~ 85 °C



Frequency Response LPF090703A250TG



Transmission Characteristics (S-Parameter)

Differential Characteristic Impedance





Impedance Curves

Frequency Response LPF090703A350TG

Transmission Characteristics (S-Parameter)



Differential Characteristic Impedance







Tape and Reel Information



ŀ	Empty Section 45 Pitch				Chip Mounting Section				Empty Section 50 Pitch			Leading Section 35 Pitch
ſ	0	0	0	0	0)	0	0	0	0	0	0	



 T Cover Tape				P1							Unit = mm
Symbol	А	В	E	F	D0	P1	P2	P0	10P0	w	т
Dimension	0.81	1.12	1.75	3.50	1.55	2.00	2.00	4.00	40.00	8.00	0.58
Tolerance	±0.03	±0.03	±0.05	±0.05	±0.03	±0.05	±0.05	±0.05	±0.10	±0.10	±0.04



Recommended Land Pattern

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