Common Mode Filters

For high-speed differential signal line (USB2.0, LVDS, etc.)

MCZ series

Type:	**MCZ1210AH**	**[0504 inch]***
	MCZ2010AH	**[0804 inch]**

*** Dimensions Code [EIA]**

Issue date: September 2012

- All specifications are subject to change without notice.
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

TDK

Common Mode Filters For High-speed Differential Signal Line (USB2.0, LVDS, etc.)

Conformity to RoHS Directive

MCZ Series MCZ1210AH

FEATURES

- Compact sized multilayer common mode filter.
- By providing wide bandwidth for differential mode, this product has almost no effect for high-speed differential signals and can suppress the radiated emission.

APPLICATIONS

- High speed interface(LVDS and USB2.0) in electronics devices.
- Digital cellular phones, PCs, DSCs, portable game machines, etc.

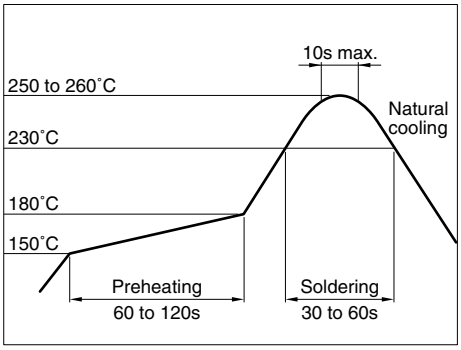
PRODUCT IDENTIFICATION

MCZ	1210	AH	360	L2	T
(1)	(2)	(3)	(4)	(5)	(6)

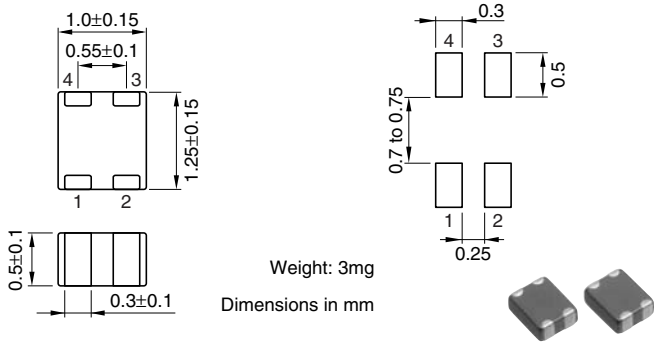
(1) Series name
(2) Dimensions L×W
(3) Product identification number
(4) Impedance[at 100MHz]
360: 36Ω
(5) Number of line
L2: 2-line
(6) Packaging style
T: Taping

RECOMMENDED SOLDERING CONDITION

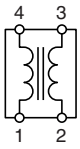
REFLOW SOLDERING



SHAPES AND DIMENSIONS/ RECOMMENDED PC BOARD PATTERNS



CIRCUIT DIAGRAMS



・No polarity

TEMPERATURE RANGE

Operating	–40 to +85°C
Storage(After mount)	–40 to +85°C

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	4000 pieces/reel

HANDLING AND PRECAUTIONS

- Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and product temperature does not exceed 150°C.
- After mounting components onto the printed circuit board, do not apply stress through board bending or mishandling.
- Do not expose the inductors to stray magnetic fields.
- Avoid static electricity discharge during handling.
- When hand soldering, apply the soldering iron to the printed circuit board only. Temperature of the iron tip should not exceed 350°C. Soldering time should not exceed 3 seconds.
- This product does not apply to flow soldering construction method.

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

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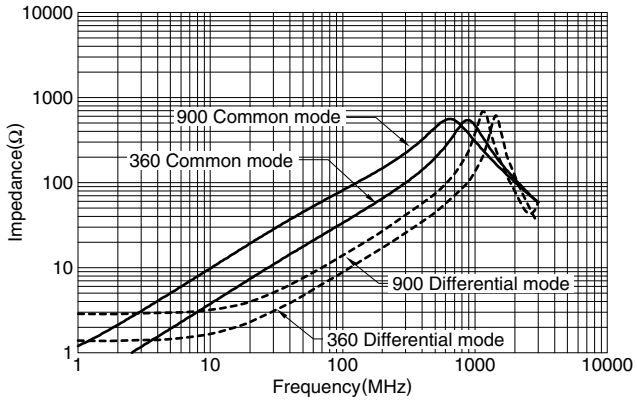
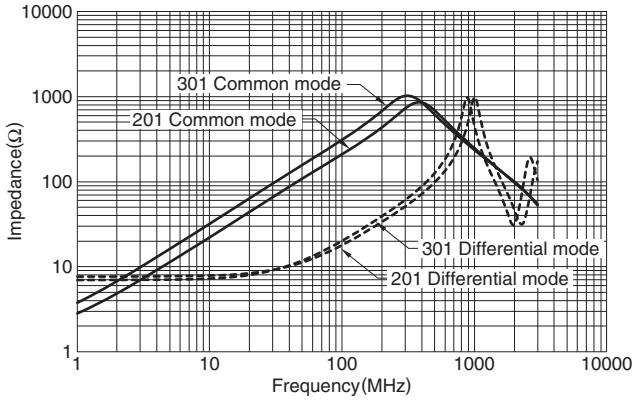
ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω) [100MHz]	DC resistance (Ω)max.[1 line]	Rated current Idc(mA)max.	Rated voltage Edc(V)max.	Insulation resistance (MΩ)min.
MCZ1210AH360L2T	36±25%	1.00	200	5	10
MCZ1210AH900L2T	90±25%	1.75	100	5	10
MCZ1210AH201L2T	200±25%	4.00	100	5	10
MCZ1210AH301L2T	300±25%	4.50	100	5	10

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS





Common Mode Filters
For High-speed Differential Signal Line
(USB2.0, LVDS, etc.)

Conformity to RoHS Directive

MCZ Series MCZ2010AH

FEATURES

- Compact sized multilayer common mode filter.
- By providing wide bandwidth for differential mode, this product has almost no effect for high-speed differential signals and can suppress the radiated emission.

APPLICATIONS

- High speed interface(LVDS and USB2.0) in electronics devices.
- PDP/LCD/DLP/PJ TVs, DVD players, notebook PCs, DVCs, DSCs, amusement machines, portable audio, digital cellular phones, etc.

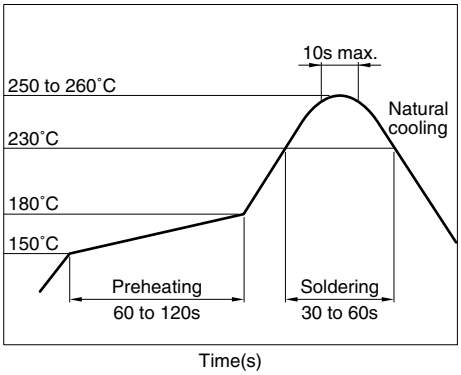
PRODUCT IDENTIFICATION

MCZ	2010	AH	900	L4	T
(1)	(2)	(3)	(4)	(5)	(6)

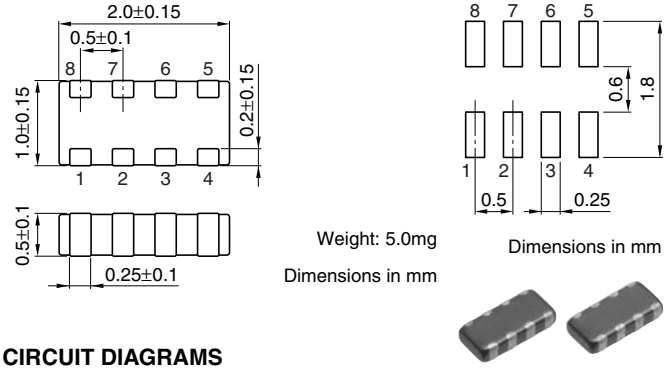
(1) Series name
(2) Dimensions L×W
(3) Product identification number
(4) Impedance[at 100MHz]
900: 90Ω
(5) Number of line
L4: 4line
(6) Packaging style
T: Taping

RECOMMENDED SOLDERING CONDITION

REFLOW SOLDERING



SHAPES AND DIMENSIONS/ RECOMMENDED PC BOARD PATTERNS

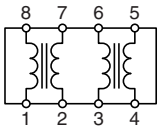


Weight: 5.0mg

Dimensions in mm

Dimensions in mm

CIRCUIT DIAGRAMS



・No polarity

TEMPERATURE RANGE

Operating	–40 to +85°C
Storage(After mount)	–40 to +85°C

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	5000 pieces/reel

HANDLING AND PRECAUTIONS

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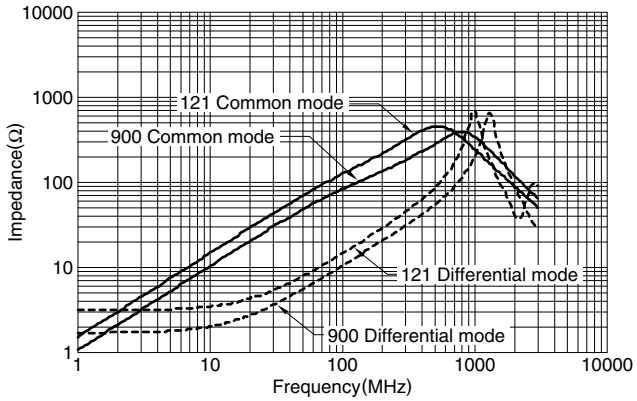
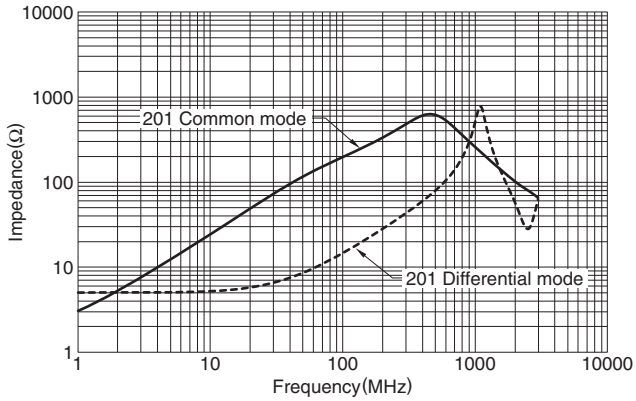
ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω) [100MHz]	DC resistance (Ω)max.[1 line]	Rated current Idc(mA)max.	Rated voltage Edc(V)max.	Insulation resistance (MΩ)min.
MCZ2010AH900L4T	90±25%	1.50	100	5	10
MCZ2010AH121L4T	120±25%	2.00	100	5	10
MCZ2010AH201L4T	200±25%	3.50	100	5	10

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS





OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

AVIC JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

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