

Features

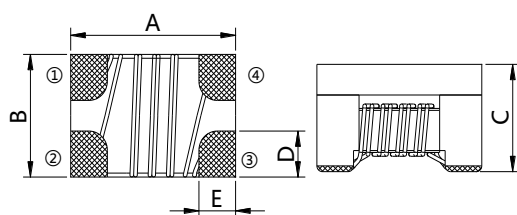
- High common mode impedance at high frequency cause excellent noise suppression performance.
- CMDI series realizes small size and low profile.
- Operating temperature -40~+125°C (Including self-temperature rise)

Applications

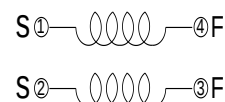
- USB2.0 of IEEE1394, PC, peripheral equipment, small digital AV equipment, etc.
- LVDS lines of Note PC, LCD
- Audio lines



Dimensions(mm)



Schematic Diagram



Type	A	B	C	D	E	Packaging (pcs/reel)
CMDI1608S	1.6±0.1	0.8±0.1	1.1±0.1	0.33	0.25	3000
CMDI2012S	2.0±0.2	1.2±0.2	1.2±0.2	0.5	0.5	2000
CMDI2520S	2.5±0.2	2.0±0.2	1.2±0.2	0.6	0.45	2000
CMDI3216S	3.2±0.2	1.6±0.2	1.8±0.2	0.6	0.6	2000
CMDI3216N	3.4±0.2	1.6±0.2	2.0±0.2	0.6	0.7	2000
CMDI3225L	3.2±0.2	2.5±0.2	2.2±0.2	0.9	0.8	2000
CMDI3225D	3.2±0.2	2.5±0.2	2.2±0.2	0.9	0.8	2000
CMDI4532C	4.5±0.2	3.2±0.2	2.8±0.5	1.2	1.0	500
CMDI4532T	4.5±0.2	3.2±0.2	2.8±0.5	1.2	1.0	500

Dimensions without tolerance are typical.

Product Identification

CMDI **3216** **S** - **221** **I** **01**

① ② ③ ④ ⑤ ⑥

- ① Product Series No.
- ② Dimension symbol. 3216=3.2 x 1.6mm (L x H)
- ③ Internal control code.
- ④ Impedance value. 221=22×10¹ Ω=220 Ω; Inductance Value:510=51uH,101=100uH
- ⑤ Packing. T=Taping, B=Bulk
- ⑥ Characteristic parameter level.

CMDI1608S Electrical Characteristics

Part Number	Impedance ① Ω at 100MHz	DCR ② (mΩ) max	Insulation Resistance (MΩ) Min	Rated Voltage (V) max.	Rated ③ Current -mA
CMDI1608S-220T01	22±25%	110	10	20	500
CMDI1608S-900T01	90±25%	250	10	20	300

CMDI2012S Electrical Characteristics

Part Number	Impedance ① Ω at 100MHz	DCR ② (mΩ) max	Insulation Resistance (MΩ) Min	Rated Voltage (V) max.	Rated ③ Current -mA
CMDI2012S-500T01	50±25%	250	10	50	400
CMDI2012S-670T01	67±25%	250	10	50	400
CMDI2012S-700T01	70±25%	300	10	50	400
CMDI2012S-750T01	75±25%	300	10	50	400
CMDI2012S-900T01	90±25%	300	10	50	400
CMDI2012S-121T01	120±25%	300	10	50	370
CMDI2012S-161T01	160±25%	350	10	50	330
CMDI2012S-181T01	180±25%	350	10	50	330
CMDI2012S-221T01	220±25%	400	10	50	300
CMDI2012S-261T01	260±25%	400	10	50	300
CMDI2012S-301T01	300±25%	420	10	50	300
CMDI2012S-361T01	360±25%	450	10	50	280
CMDI2012S-371T01	370±25%	500	10	50	280
CMDI2012S-451T01	450±25%	500	10	50	250
CMDI2012S-601T01	600±25%	600	10	50	220
CMDI2012S-801T01	800±25%	880	10	50	300
CMDI2012S-901T01	900±25%	900	10	50	150
CMDI2012S-102T01	1000±25%	1300	10	50	150

CMDI2520S Electrical Characteristics

Part Number	Impedance ① Ω at 100MHz	DCR ② (mΩ) max	Insulation Resistance (MΩ) Min	Rated Voltage (V) max.	Rated ③ Current -mA
CMDI2520S-301T01	300±25%	200	10	50	400
CMDI2520S-451T01	450±25%	300	10	50	350
CMDI2520S-601T01	600±25%	380	10	50	330
CMDI2520S-102T01	1000±25%	500	10	50	240

CMDI3216N Electrical Characteristics

Part Number	Inductance ① uH at 100kHz/0.1V	DCR ② (Ω) max	Insulation Resistance (MΩ) Min	Rated Voltage (V) max.	Rated ③ Current -mA
CMDI3216N-400T01	40 MIN.	2.0	10	50	100
CMDI3216N-600T01	60 MIN.	1.1	10	50	200
CMDI3216N-600T02	60 MIN.	0.9	10	50	200
CMDI3216N-600T03	60 MIN.	1.7	10	50	200
CMDI3216N-900T01	90 MIN.	2.0	10	50	100

All specifications are subject to change without notice.

CMDI3216S Electrical Characteristics

Part Number	Impedance ① Ω at 100MHz	DCR ② (mΩ) max	Insulation Resistance (MΩ) Min	Rated Voltage (V) max.	Rated ③ Current (mA)
CMDI3216S-900T01	90±25%	300	10	50	370
CMDI3216S-121T01	120±25%	300	10	50	350
CMDI3216S-161T01	160±25%	400	10	50	340
CMDI3216S-221T01	220±25%	450	10	50	300
CMDI3216S-261T01	260±25%	500	10	50	310
CMDI3216S-361T01	370±25%	600	10	50	300
CMDI3216S-601T01	600±25%	800	10	50	260
CMDI3216S-801T01	800±25%	900	10	50	240
CMDI3216S-102T01	1000±25%	1000	10	50	230
CMDI3216S-142T01	1400±25%	1000	10	50	220
CMDI3216S-202T01	2000±25%	1200	10	50	200
CMDI3216S-222T01	2200±25%	1200	10	50	200

CMDI3225D Electrical Characteristics

Part Number	Impedance ① Ω at 100MHz	DCR ② (mΩ) max	Insulation Resistance (MΩ) Min	Rated Voltage (V) max.	Rated ③ Current -mA
CMDI3225D-800T01	80±25%	120	10	50	640
CMDI3225D-161T01	160±25%	150	10	50	480
CMDI3225D-271T01	270±25%	250	10	50	450
CMDI3225D-501T01	500±25%	300	10	50	1000
CMDI3225D-601T01	600±25%	200	10	50	1000
CMDI3225D-801T01	800±25%	350	10	50	350
CMDI3225D-102T01	1000±25%	350	10	50	480
CMDI3225D-102T02	1000±25%	100	10	50	1500

CMDI3225L Electrical Characteristics

Part Number	Inductance ① uH at 100kHz/0.1V	Impedance① Ω at 10MHz	DCR ② (mΩ) max	Insulation Resistance (MΩ) Min	Rated Voltage (V) max.	Rated ③ Current -mA
CMDI3225L-110T01	11+50%,-30%	300min.	400	10	50	300
CMDI3225L-220T01	22+50%,-30%	500min.	500	10	50	250
CMDI3225L-510T01	51+50%,-30%	1000min.	700	10	50	200
CMDI3225L-101T01	100+50%,-30%	2200min.	1500	10	50	150
CMDI3225L-201T01	200+50%,-30%	8000min.	4800	10	50	70

① Impedance measured on a 4991A Keysight Technologies or equivalent.

② DCR measured on a micro-ohmmeter (Single winding)

③ Rated Current: The DC current at which $\Delta t=40^{\circ}\text{C}$,measure pin1 to 2,short pin3,4 (at 25℃).

CMDI4532T Electrical Characteristics

Part Number	Impedance ① Ω at 100MHz MIN.	Impedance Ω at 100MHz Typ. ①	DCR ② (m Ω) max	Insulation Resistance (M Ω) Min	Rated Voltage (V) max.	Rated ③ Current -A
CMDI4532T-800T01	60	80	50	10	50	2.3
CMDI4532T-900T01	68	90	78	10	50	2.3
CMDI4532T-121T01	90	120	100	10	50	1.4
CMDI4532T-201T01	150	200	100	10	50	1.5
CMDI4532T-221T01	165	220	100	10	50	1.3
CMDI4532T-331T01	248	330	110	10	50	1.1
CMDI4532T-421T01	300	420	55	10	50	1.4
CMDI4532T-501T01	380	500	70	10	50	1.4
CMDI4532T-601T01	450	600	85	10	50	1.5
CMDI4532T-701T01	525	700	120	10	50	1.2
CMDI4532T-801T01	600	800	150	10	50	1.1
CMDI4532T-901T01	675	900	100	10	50	1.0
CMDI4532T-102T01	750	1000	130	10	50	1.0
CMDI4532T-142T01	1050	1400	100	10	50	0.9

CMDI4532C Electrical Characteristics

Part Number	Inductance uH at 100kHz	Impedance ① Ω at 10MHz typ.	Impedance Ω at 10MHz min①	DCR ② (Ω) max	Insulation Resistance (M Ω) Min	Rated Voltage (V) max.	Rated ③ Current (mA) Max.
CMDI4532C-100T01	10+50%/-30%	600	300	0.60	10	50	360
CMDI4532C-110T01	11+50%/-30%	600	300	0.60	10	50	360
CMDI4532C-220T01	22+50%/-30%	1200	500	1.00	10	50	310
CMDI4532C-510T01	51+50%/-30%	2800	1000	1.00	10	50	230
CMDI4532C-101T01	100+50%/-30%	5800	2000	2.00	10	50	200
CMDI4532C-201T01	200+50%/-30%	8000	5000	4.50	10	50	100

① Impedance measured on a 4991A Keysight Technologies or equivalent.

② DCR measured on a micro-ohmmeter (Single winding)

③ Rated Current: The DC current at which $\Delta t=40^{\circ}\text{C}$,measure pin1 to 2,short pin3,4 (at 25°C).

Common Mode Impedance TEST

