FEATURES

● Internal silver printed layers and magnetic shielded structures to minimize crosstalk.
● Can be used in a wide range of frequency to suppress EMI.
● Smaller DC resistance and larger allowable current.
● Operating temperature:-55℃~+125℃.

APPLICATIONS

● Noise suppression for power line or large current signal of electric equipment such as computers and peripheral devices, DVD cameras, LCD TVs, communication equipment, OA equipment, etc.

PRODUCT IDENTIFICATION

UMCB	1608	S	601	T
(1)	(2)	(3)	(4)	(5)

(1) 系列名称 Series name
(2) 产品尺寸 Product dimensions
(3) 特性类别 Feature Type
(4) 阻抗值 Impedance Value (100:10Ω，101:100Ω，102:1000Ω)
(5) 包装 Package(T:Tape&Reel 卷盘编带)

SHAPE AND DIMENSIONS

Series	L	W	T	D
UMCB0603	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.05
UMCB1005	1.0±0.15	0.5±0.15	0.5±0.15	0.25±0.10
UMCB1608	1.6±0.20	0.8±0.20	0.8±0.20	0.3±0.20
UMCB2012	2.0±0.20	1.2±0.20	0.9±0.20	0.5±0.30
UMCB3216	3.2±0.20	1.6±0.20	0.9±0.20	0.5±0.30
UMCB3225	3.2±0.20	2.5±0.20	1.3±0.20	0.5±0.30
UMCB4516	4.5±0.20	1.6±0.20	1.6±0.20	0.5±0.30
UMCB4532	4.5±0.20	3.2±0.20	1.5±0.20	0.5±0.30

Unit:mm

SPECIFICATIONS

UMCB0603 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max. (mA)
UMCB0603S220T	22	±25%	100	0.040	1800
UMCB0603S330T	33	±25%	100	0.055	1500
UMCB0603S800T	80	±25%	100	0.130	1000
UMCB0603S121T	120	±25%	100	0.160	900

UMCB1005 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max. (mA)
UMCB1005S000T	0	0～15Ω	100	0.02	2000
UMCB1005S050T	5	0～15Ω	100	0.02	2000
UMCB1005S070T	7	0～11Ω	100	0.02	2000
UMCB1005S090T	9	5～13Ω	100	0.02	2000
UMCB1005S110T	11	7～15Ω	100	0.02	2000
UMCB1005S150T	15	9～21Ω	100	0.02	2000
UMCB1005S190T	19	12～25Ω	100	0.035	1700
UMCB1005S260T	26	±25%	100	0.06	1500
UMCB1005S300T	30	±25%	100	0.06	1500
UMCB1005S600T	60	±25%	100	0.10	1300
UMCB1005S101T	100	±25%	100	0.15	1000
UMCB1005S121T	120	±25%	100	0.15	1000
UMCB1005S151T	150	±25%	100	0.20	700
UMCB1005S201T	200	±25%	100	0.25	700
UMCB1005S221T	220	±25%	100	0.28	700
UMCB1005S301T	300	±25%	100	0.30	600
UMCB1005S501T	500	±25%	100	0.40	500
UMCB1005S601T	600	±25%	100	0.50	500
UMCB1005S801T	800	±25%	100	0.65	300
UMCB1005S102T	1000	±25%	100	0.65	300

UMCB1608 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max. (mA)
UMCB1608S000T	0	0～15Ω	100	0.01	6000
UMCB1608S050T	5	0～15Ω	100	0.01	6000
UMCB1608S070T	7	0～11Ω	100	0.01	6000
UMCB1608S090T	9	5～13Ω	100	0.01	6000
UMCB1608S110T	11	7～15Ω	100	0.01	6000
UMCB1608S150T	15	9～21Ω	100	0.01	6000
UMCB1608S190T	19	12～25Ω	100	0.01	6000
UMCB1608S260T	26	±25%	100	0.03	5000
UMCB1608S300T	30	±25%	100	0.03	4000
UMCB1608S500T	50	±25%	100	0.04	3000
UMCB1608S600T	60	±25%	100	0.04	3000
UMCB1608S700T	70	±25%	100	0.06	2500
UMCB1608S750T	75	±25%	100	0.06	2500
UMCB1608S800T	80	±25%	100	0.06	2500
UMCB1608S101T	100	±25%	100	0.06	2500
UMCB1608S121T	120	±25%	100	0.065	2000
UMCB1608S151T	150	±25%	100	0.07	1500
UMCB1608S181T	180	±25%	100	0.09	1500
UMCB1608S221T	220	±25%	100	0.12	1500
UMCB1608S301T	300	±25%	100	0.15	1500
UMCB1608S331T	330	±25%	100	0.18	1300
UMCB1608S501T	500	±25%	100	0.18	1300
UMCB1608S601T	600	±25%	100	0.18	1300
UMCB1608S801T	800	±25%	100	0.30	800
UMCB1608S102T	1000	±25%	100	0.35	700

UMCB2012 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max. (mA)
UMCB2012S000T	0	0～15Ω	100	0.01	6000
UMCB2012S050T	5	0～15Ω	100	0.01	6000
UMCB2012S070T	7	0～11Ω	100	0.01	6000
UMCB2012S090T	9	5～13Ω	100	0.01	6000
UMCB2012S110T	11	7～15Ω	100	0.01	6000
UMCB2012S150T	15	9～21Ω	100	0.01	6000
UMCB2012S190T	19	12～25Ω	100	0.01	6000
UMCB2012S300T	30	±25%	100	0.01	6000
UMCB2012S310T	31	±25%	100	0.01	6000
UMCB2012S500T	50	±25%	100	0.03	4000
UMCB2012S600T	60	±25%	100	0.03	4000
UMCB2012S700T	70	±25%	100	0.04	4000
UMCB2012S800T	80	±25%	100	0.04	4000
UMCB2012S101T	100	±25%	100	0.045	4000
UMCB2012S121T	120	±25%	100	0.045	4000
UMCB2012S151T	150	±25%	100	0.07	3000
UMCB2012S181T	180	±25%	100	0.07	3000
UMCB2012S221T	220	±25%	100	0.07	3000
UMCB2012S301T	300	±25%	100	0.08	2500
UMCB2012S501T	500	±25%	100	0.09	2500
UMCB2012S601T	600	±25%	100	0.10	2000
UMCB2012S102T	1000	±25%	100	0.12	1500

UMCB3216 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max. (mA)
UMCB3216S000T	0	0～15Ω	100	0.01	6000
UMCB3216S050T	5	0～15Ω	100	0.01	6000
UMCB3216S070T	7	0～11Ω	100	0.01	6000
UMCB3216S090T	9	5～13Ω	100	0.01	6000
UMCB3216S110T	11	7～15Ω	100	0.01	6000
UMCB3216S150T	15	9～21Ω	100	0.015	6000
UMCB3216S190T	19	12～25Ω	100	0.015	6000
UMCB3216S260T	26	±25%	100	0.015	6000
UMCB3216S280T	28	±25%	100	0.015	6000
UMCB3216S300T	30	±25%	100	0.015	6000
UMCB3216S310T	31	±25%	100	0.02	5000
UMCB3216S500T	50	±25%	100	0.02	5000
UMCB3216S600T	60	±25%	100	0.025	5000
UMCB3216S700T	70	±25%	100	0.035	4000
UMCB3216S800T	80	±25%	100	0.035	4000
UMCB3216S101T	100	±25%	100	0.035	4000
UMCB3216S121T	120	±25%	100	0.035	4000
UMCB3216S151T	150	±25%	100	0.045	3000
UMCB3216S181T	180	±25%	100	0.055	3000
UMCB3216S221T	220	±25%	100	0.055	3000
UMCB3216S301T	300	±25%	100	0.065	2500
UMCB3216S501T	500	±25%	100	0.08	2500
UMCB3216S601T	600	±25%	100	0.085	2200
UMCB3216S801T	800	±25%	100	0.11	2100
UMCB3216S102T	1000	±25%	100	0.12	2100

UMCB3225 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max. (mA)
UMCB3225S110T	11	7～15Ω	100	0.02	6000
UMCB3225S150T	15	9～21Ω	100	0.02	6000
UMCB3225S190T	19	12～25Ω	100	0.02	6000
UMCB3225S260T	26	±25%	100	0.02	6000
UMCB3225S310T	31	±25%	100	0.02	6000
UMCB3225S600T	60	±25%	100	0.02	6000
UMCB3225S700T	70	±25%	100	0.02	6000
UMCB3225S800T	80	±25%	100	0.02	6000
UMCB3225S900T	90	±25%	100	0.03	5000
UMCB3225S121T	120	±25%	100	0.03	5000
UMCB3225S151T	150	±25%	100	0.03	5000
UMCB3225S301T	300	±25%	100	0.06	4000
UMCB3225S501T	500	±25%	100	0.10	4000
UMCB3225S601T	600	±25%	100	0.15	3000
UMCB3225S801T	800	±25%	100	0.20	2500
UMCB3225S102T	1000	±25%	100	0.23	2500

UMCB4516 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max. (mA)
UMCB4516S190T	19	12～25Ω	100	0.009	6000
UMCB4516S260T	26	±25%	100	0.009	6000
UMCB4516S310T	31	±25%	100	0.009	6000
UMCB4516S600T	60	±25%	100	0.009	6000
UMCB4516S750T	75	±25%	100	0.020	4000
UMCB4516S800T	80	±25%	100	0.025	3000

UMCB4532 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max. (mA)
UMCB4532S190T	19	12～25Ω	100	0.01	6000
UMCB4532S260T	26	±25%	100	0.01	6000
UMCB4532S280T	28	±25%	100	0.01	6000
UMCB4532S300T	30	±25%	100	0.01	6000
UMCB4532S310T	31	±25%	100	0.01	6000
UMCB4532S380T	38	±25%	100	0.01	6000
UMCB4532S400T	40	±25%	100	0.01	6000
UMCB4532S500T	50	±25%	100	0.01	6000
UMCB4532S600T	60	±25%	100	0.01	6000
UMCB4532S700T	70	±25%	100	0.01	6000
UMCB4532S101T	100	±25%	100	0.02	6000
UMCB4532S181T	180	±25%	100	0.02	6000
UMCB4532S221T	220	±25%	100	0.02	6000
UMCB4532S501T	500	±25%	100	0.08	4000
UMCB4532S601T	600	±25%	100	0.08	4000

Note：

Irms：DC current that causes the temperature rise(ΔT=40℃) from 25℃ ambient.

CHARACTERISTICS CURVES

Impedance VS. Frenquency

UMCB0603 Series

UMCB1005 Series

UMCB1608 Series

UMCB2012 Series

UMCB3216 Series