

## Multilayer Chip Inductor / High Current Chip Beads MI2012-A SERIES



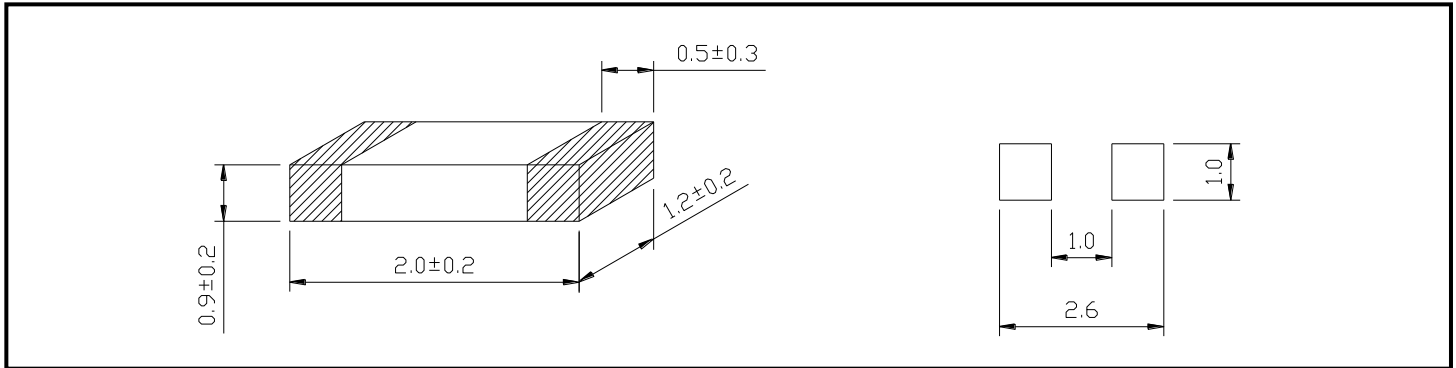
### PART NUMBERING SYSTEM

(AEC-Q200)

<b>MI</b>	–	<b>2012</b>	–	<b>600</b>	–	<b>3A</b>	–	<b>LF</b>	–	<b>A</b>
TYPE		DIMENSIONS		IMPEDANCE		DC CURRENT		LEAD FREE		AUTOMOTIVE

### SHAPES AND DIMENSIONS

UNIT : mm



### SPECIFICATION TABLE

PART NUMBER	IMPEDANCE (Ω) at 100MHz	DCR (Ω) (Max.)	IDC (A) (Max.)
MI2012-100-3A-LF-A	10±25%	0.010	3.0
MI2012-100-6A-LF-A	10±25%	0.010	6.0
MI2012-110-3A-LF-A	11±25%	0.030	3.0
MI2012-110-6A-LF-A	11±25%	0.008	6.0
MI2012-170-3A-LF-A	17±25%	0.030	3.0
MI2012-200-6A-LF-A	20±25%	0.010	6.0
MI2012-220-3A-LF-A	22±25%	0.030	3.0
MI2012-220-6A-LF-A	22±25%	0.010	6.0
MI2012-260-4A-LF-A	26±25%	0.020	4.0
MI2012-300-1A-LF-A	30±25%	0.100	1.0
MI2012-300-3A-LF-A	30±25%	0.025	3.0
MI2012-300-6A-LF-A	30±25%	0.015	6.0
MI2012-300-8.5A-LF-A	30±25%	0.004	8.5
MI2012-300-10A-LF-A	30±25%	0.003	10.0

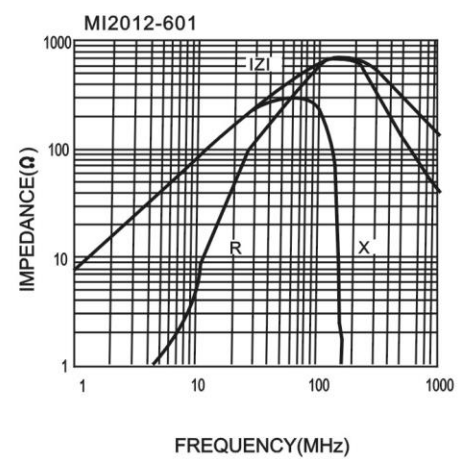
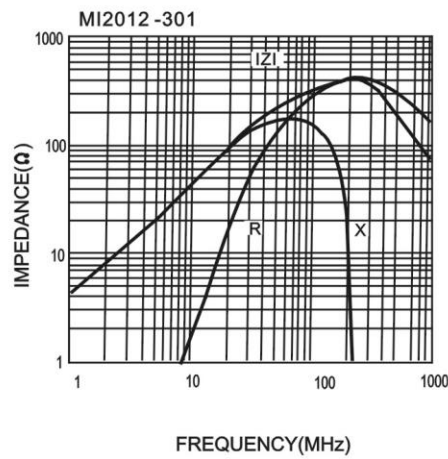
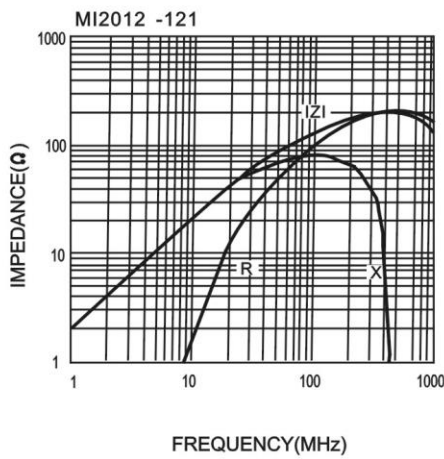
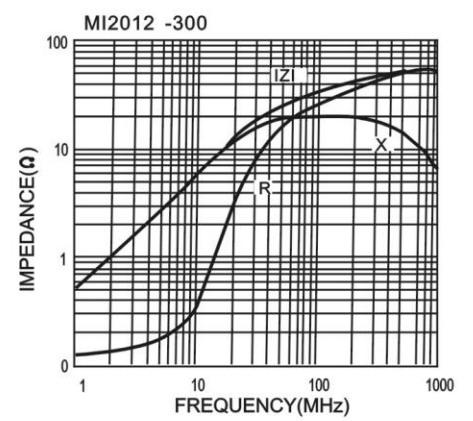
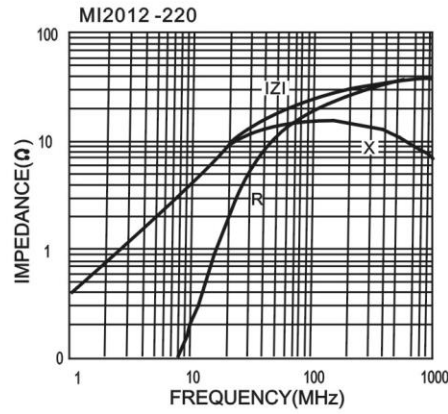
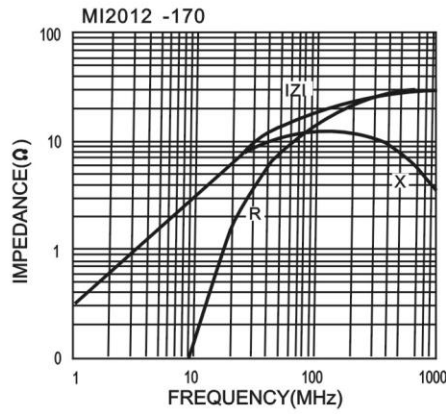
## SPECIFICATION TABLE

PART NUMBER	IMPEDANCE ( $\Omega$ ) at 100MHz	DCR ( $\Omega$ ) (Max.)	IDC (A) (Max.)
MI2012-310-3A-LF-A	31 $\pm$ 25%	0.030	3.0
MI2012-310-6A-LF-A	31 $\pm$ 25%	0.008	6.0
MI2012-330-3A-LF-A	33 $\pm$ 25%	0.030	3.0
MI2012-330-6A-LF-A	33 $\pm$ 25%	0.008	6.0
MI2012-390-6A-LF-A	39 $\pm$ 25%	0.008	6.0
MI2012-400-4A-LF-A	40 $\pm$ 25%	0.025	4.0
MI2012-420-4A-LF-A	42 $\pm$ 25%	0.020	4.0
MI2012-470-3A-LF-A	47 $\pm$ 25%	0.030	3.0
MI2012-520-3A-LF-A	52 $\pm$ 25%	0.030	3.0
MI2012-600-3A-LF-A	60 $\pm$ 25%	0.040	3.0
MI2012-600-4A-LF-A	60 $\pm$ 25%	0.025	4.0
MI2012-600-6A-LF-A	60 $\pm$ 25%	0.020	6.0
MI2012-700-4A-LF-A	70 $\pm$ 25%	0.020	4.0
MI2012-750-1A-LF-A	75 $\pm$ 25%	0.100	1.0
MI2012-800-3A-LF-A	80 $\pm$ 25%	0.040	3.0
MI2012-800-6A-LF-A	80 $\pm$ 25%	0.030	6.0
MI2012-101-1A-LF-A	100 $\pm$ 25%	0.150	1.0
MI2012-101-4A-LF-A	100 $\pm$ 25%	0.020	4.0
MI2012-121-3A-LF-A	120 $\pm$ 25%	0.050	3.0
MI2012-121-6A-LF-A	120 $\pm$ 25%	0.025	6.0
MI2012-151-1A-LF-A	150 $\pm$ 25%	0.150	1.0
MI2012-151-3A-LF-A	150 $\pm$ 25%	0.050	3.0
MI2012-181-3.1A-LF-A	180 $\pm$ 25%	0.040	3.1
MI2012-201-3A-LF-A	220 $\pm$ 25%	0.050	3.0
MI2012-221-2A-LF-A	220 $\pm$ 25%	0.050	2.0
MI2012-221-3A-LF-A	220 $\pm$ 25%	0.050	3.0
MI2012-241-2A-LF-A	240 $\pm$ 25%	0.080	2.0
MI2012-251-3A-LF-A	250 $\pm$ 25%	0.040	3.0

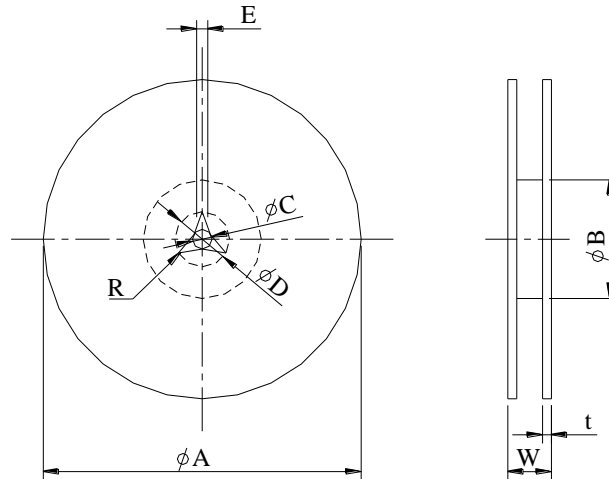
PART NUMBER	IMPEDANCE ( $\Omega$ ) at 100MHz	DCR ( $\Omega$ ) (Max.)	IDC (A) (Max.)
MI2012-301-2A-LF-A	300 $\pm$ 25%	0.070	2.0
MI2012-301-3A-LF-A	300 $\pm$ 25%	0.050	3.0
MI2012-331-2A-LF-A	330 $\pm$ 25%	0.090	2.0
MI2012-331-3A-LF-A	330 $\pm$ 25%	0.050	3.0
MI2012-471-2A-LF-A	470 $\pm$ 25%	0.100	2.0
MI2012-601-2A-LF-A	600 $\pm$ 25%	0.100	2.0
MI2012-102-1A-LF-A	1000 $\pm$ 25%	0.300	1.0
MI2012-102-1.5A-LF-A	1000 $\pm$ 25%	0.120	1.5
MI2012-152-1A-LF-A	1500 $\pm$ 25%	0.300	1.0
MI2012-202-1A-LF-A	2000 $\pm$ 25%	0.300	1.0

- Test equipment : Agilent/HP-4291A impedance analyzer or equipment .
- Operating temperature range -55 $^{\circ}$ C to +125 $^{\circ}$ C
- Electrical specifications at 25 $^{\circ}$ C
- Noise reduction solution for general signal line.
- Great reduce the possibility of resonance and signal wave forms undistorted.
- Excellent solder heat resistance.
- Various impedances are available to match signal frequency.
- High reliability. Reliability test meet AEC-Q200.
- Lead(Pb) & Halogen-Free and RoHS compliant.
- Higher Operating Temperature: -55 to +150 $^{\circ}$ C (Including self-temperature rise) is available, please contact our sales team.

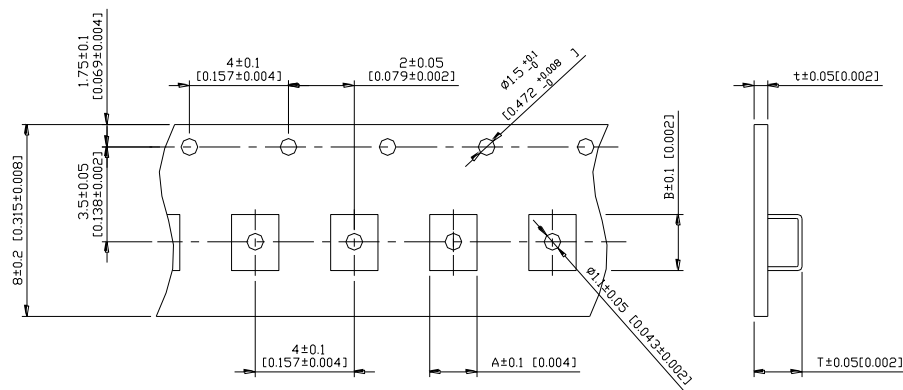
## IMPEDANCE vs FREQUENCY



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	A	B	C	D	E	W8	W12	t	R
T( $\psi 178\text{mm}$ ) Reel	$\psi 178 \pm 2$	$\psi 60 \pm 1$	$\psi 13 \pm 0.8$	$\psi 21 \pm 0.8$	2	$10 \pm 1.5$	$14.5 \pm 1.5$	$1.27 \pm 0.2$	1



TYPE	A	B	T	t	T( $\phi 178\text{mm}$ )	
2012	1.55	2.30	1.20	0.2	4000 pcs/reel	