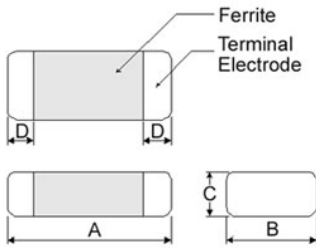


Multilayer Ferrite Chip Beads

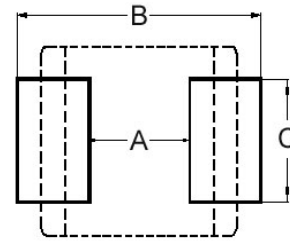


Shape and Dimensions



Dimensions in mm

Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

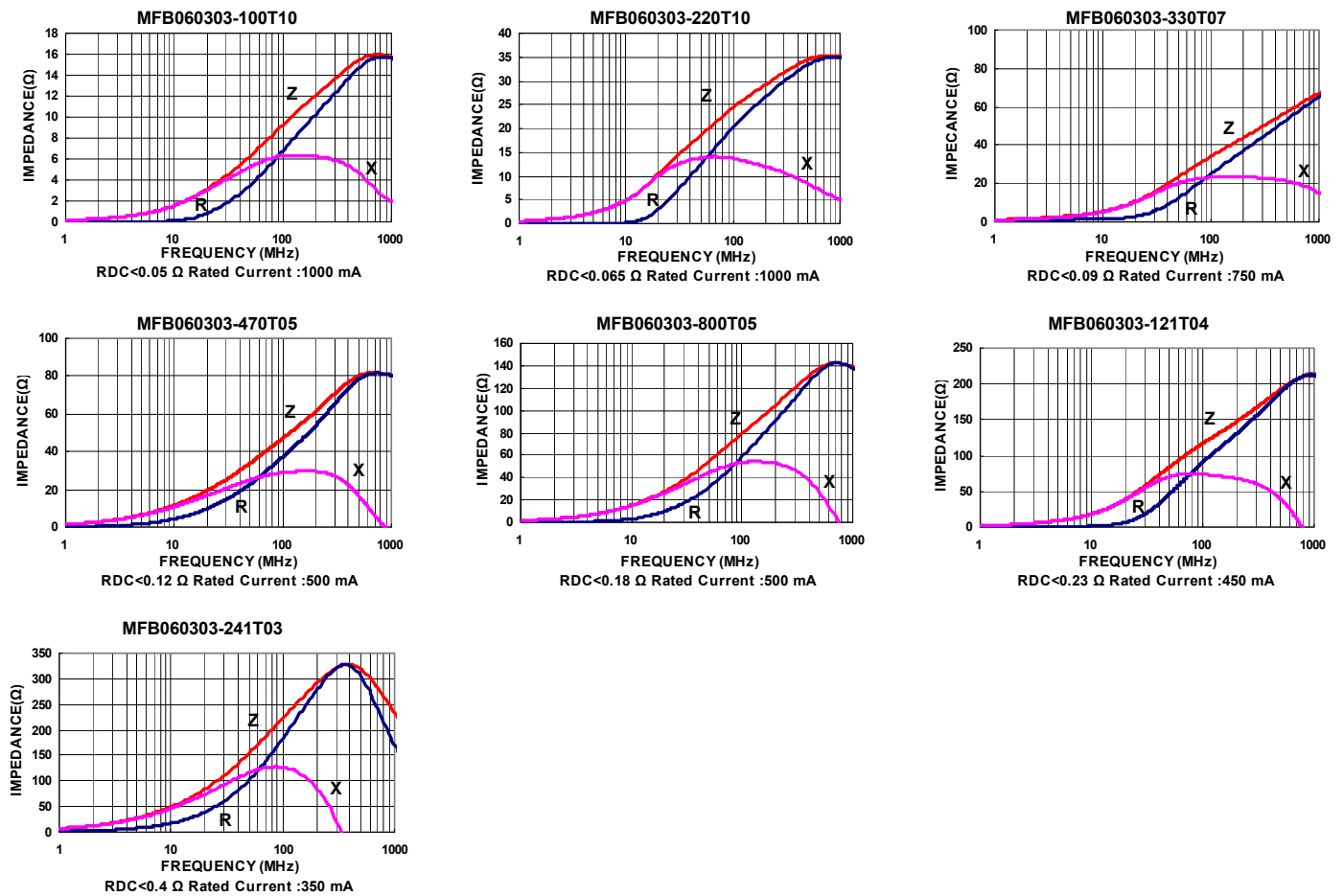
Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance ($\Omega \pm 25\%$)	DC Resistance (Ω) Max	Rated current (mA) Max
MFB060303-100T10	100	10 \pm 30%	0.050	1000
MFB060303-220T10	100	22	0.065	1000
MFB060303-330T07	100	33	0.090	750
MFB060303-470T05	100	47	0.120	500
MFB060303-800T05	100	80	0.180	500
MFB060303-121T04	100	120	0.230	450
MFB060303-241T03	100	240	0.400	350

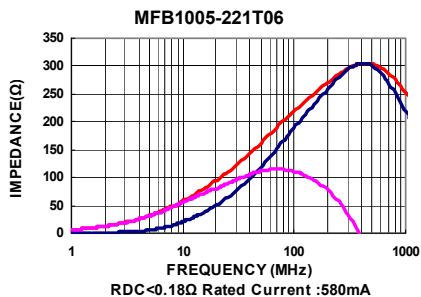
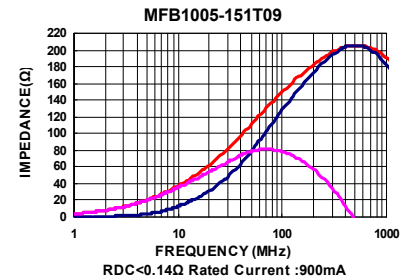
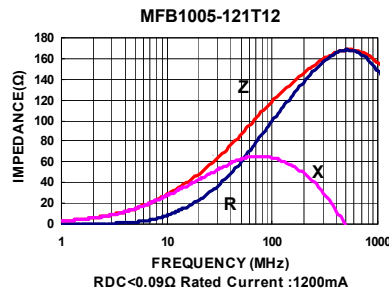
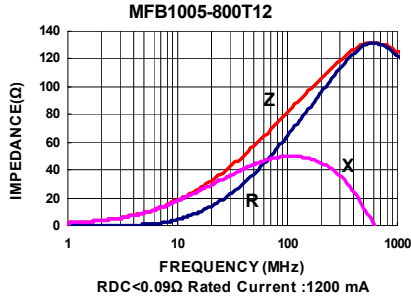
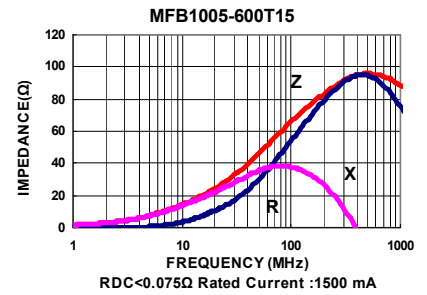
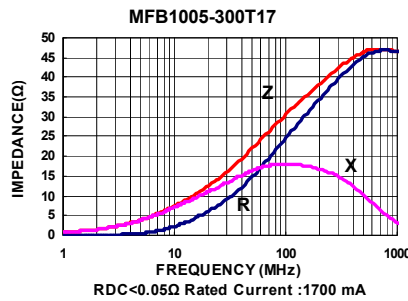
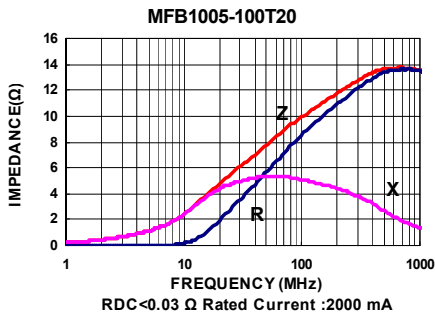
Test Instruments : Agilent E4991A Impedance / Material Analyzer



Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance ($\Omega \pm 25\%$)	DC Resistance (Ω) Max	Rated current (mA) Max
MFB1005-100T20	100	10 \pm 30%	0.03	2000
MFB1005-300T17	100	30	0.05	1700
MFB1005-600T15	100	60	0.075	1500
MFB1005-800T12	100	80	0.09	1200
MFB1005-121T12	100	120	0.09	1200
MFB1005-151T09	100	150	0.14	900
MFB1005-221T06	100	220	0.18	580
MFB1005-601T04	100	600	0.34	420
MFB1005-102T03	100	1000	0.49	350

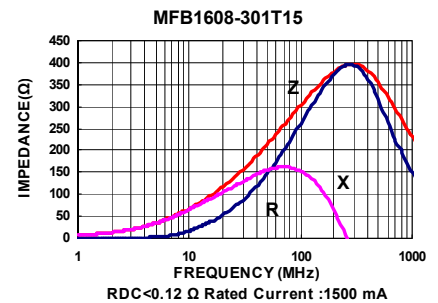
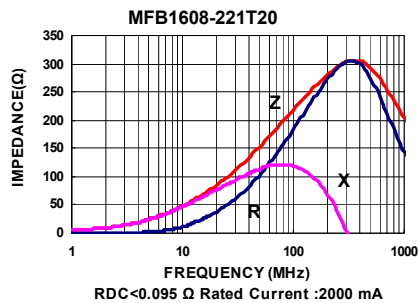
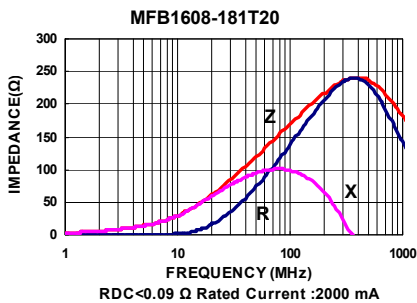
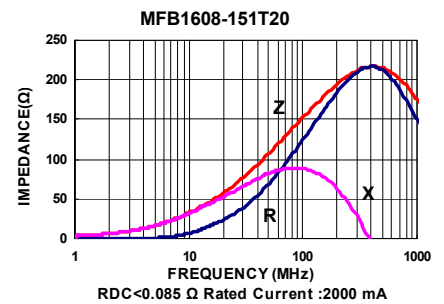
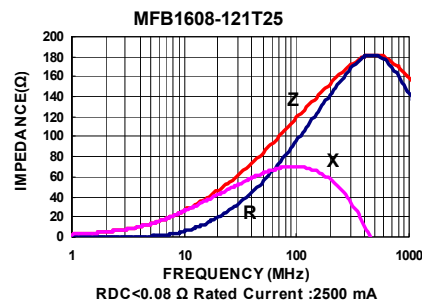
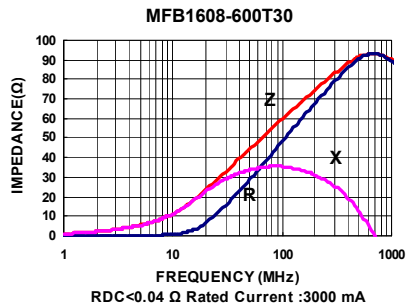
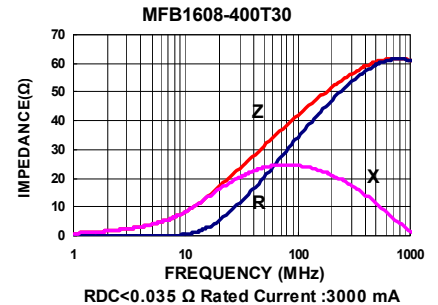
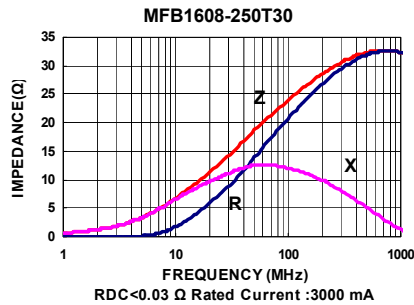
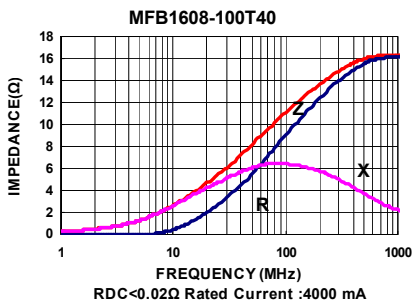
Test Instruments : Agilent E4991A Impedance / Material Analyzer



Electrical Characteristics

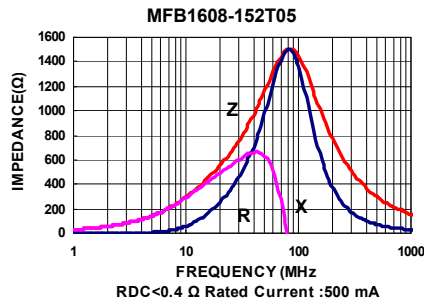
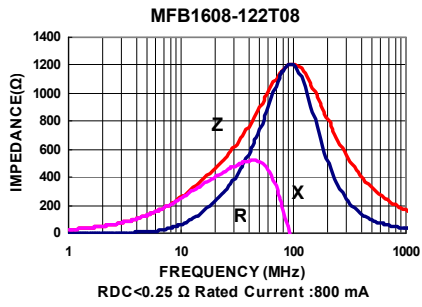
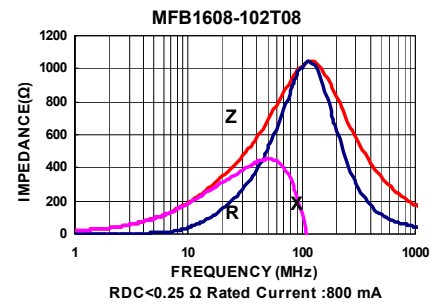
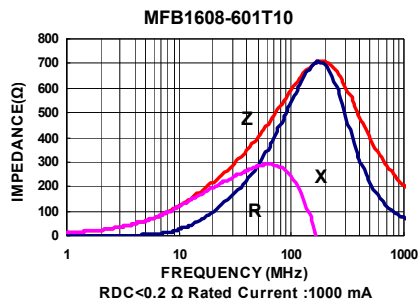
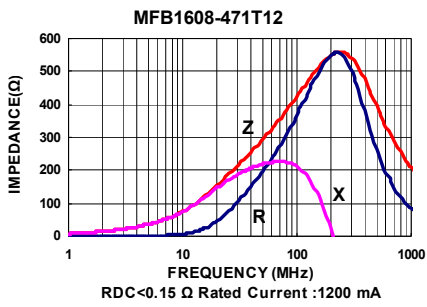
Part Number	Test Frequency (MHz)	Impedance ($\Omega \pm 25\%$)	DC Resistance (Ω) Max	Rated current (mA) Max
MFB1608-100T40	100	10 \pm 30%	0.020	4000
MFB1608-250T30	100	25	0.030	3000
MFB1608-400T30	100	40	0.035	3000
MFB1608-600T30	100	60	0.040	3000
MFB1608-121T25	100	120	0.080	2500
MFB1608-151T20	100	150	0.085	2000
MFB1608-181T20	100	180	0.090	2000
MFB1608-221T20	100	220	0.095	2000
MFB1608-301T15	100	300	0.120	1500
MFB1608-471T12	100	470	0.150	1200
MFB1608-601T10	100	600	0.200	1000
MFB1608-102T08	100	1000	0.250	800
MFB1608-122T08	100	1200	0.250	800
MFB1608-152T05	100	1500	0.400	500

Test Instruments : Agilent E4991A Impedance / Material Analyzer



SMD Multilayer Ferrite Chip Beads

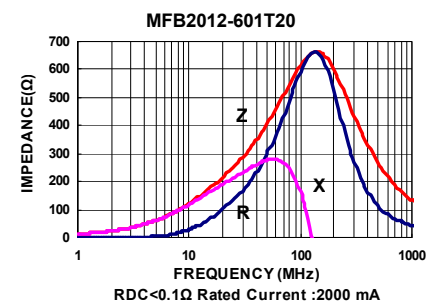
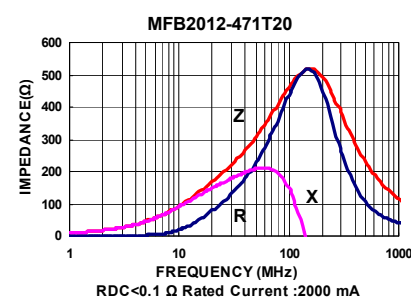
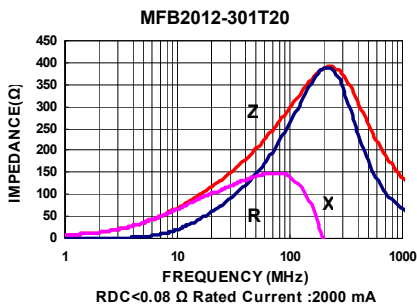
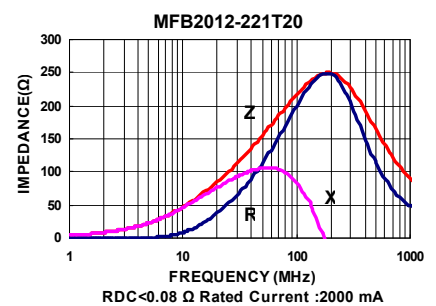
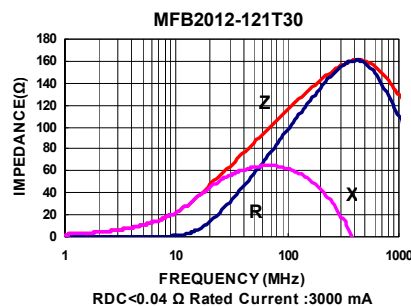
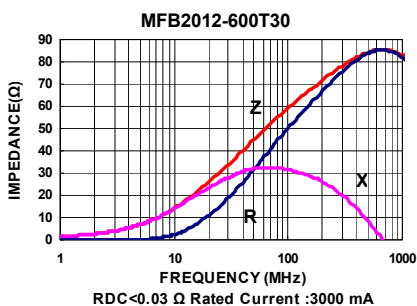
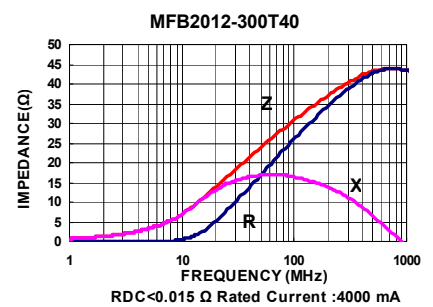
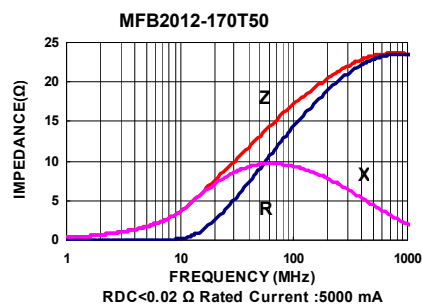
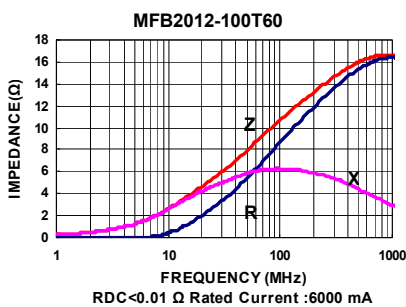
est Instruments : Agilent E4991A Impedance / Material Analyzer



Electrical Characteristics

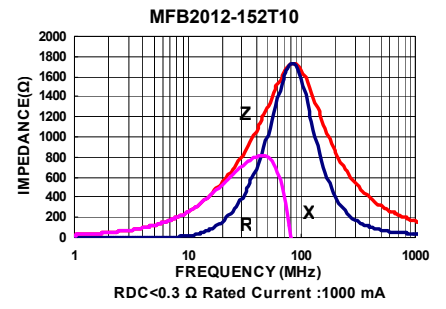
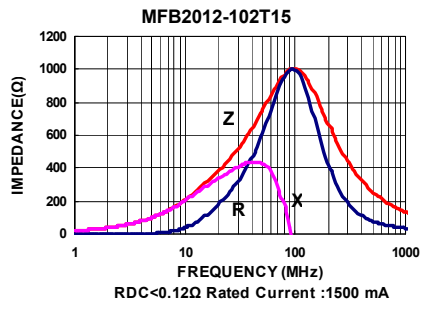
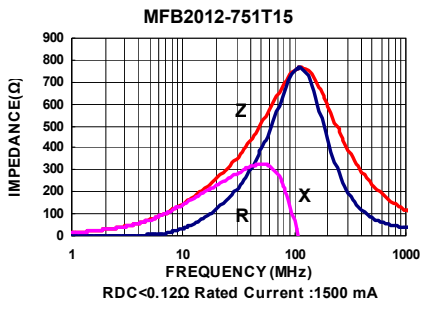
Part Number	Test Frequency (MHz)	Impedance ($\Omega \pm 25\%$)	DC Resistance (Ω) Max	Rated current (mA) Max
MFB2012-100T60	100	10 \pm 30%	0.01	6000
MFB2012-170T50	100	17	0.02	5000
MFB2012-300T40	100	30	0.015	4000
MFB2012-500T30	100	50	0.025	3000
MFB2012-600T30	100	60	0.03	3000
MFB2012-800T30	100	80	0.04	3000
MFB2012-121T30	100	120	0.04	3000
MFB2012-221T20	100	220	0.08	2000
MFB2012-301T20	100	300	0.08	2000
MFB2012-471T20	100	470	0.10	2000
MFB2012-601T20	100	600	0.10	2000
MFB2012-751T15	100	750	0.12	1500
MFB2012-102T15	100	1000	0.12	1500
MFB2012-152T10	100	1500	0.30	1000

Test Instruments : Agilent E4991A Impedance / Material Analyzer



SMD Multilayer Ferrite Chip Beads

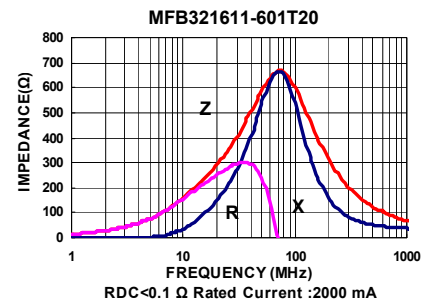
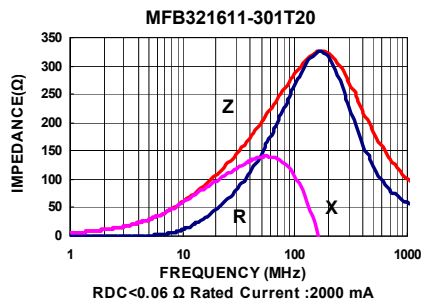
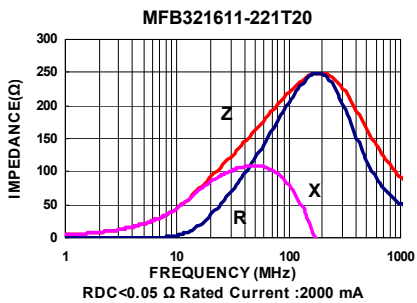
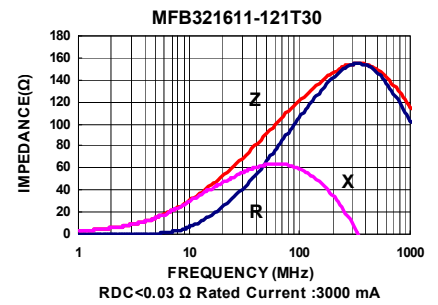
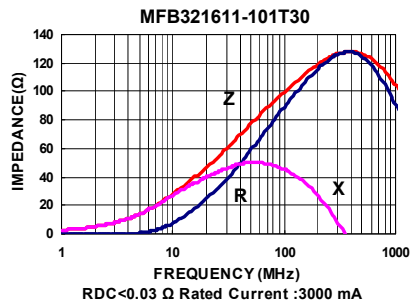
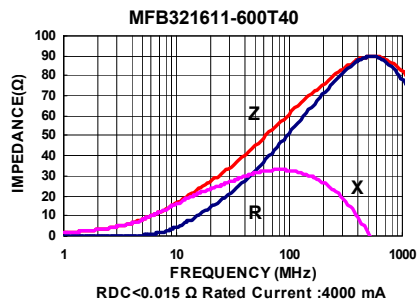
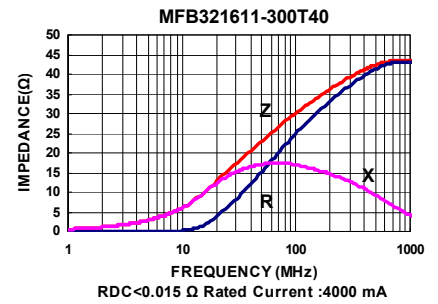
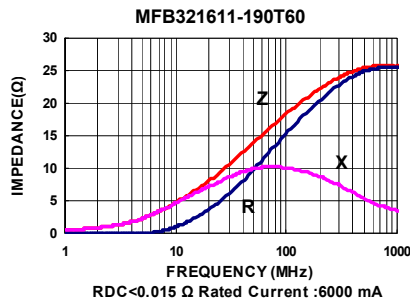
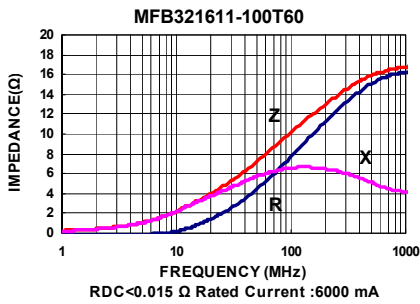
Test Instruments : Agilent E4991A Impedance / Material Analyzer



Electrical Characteristics

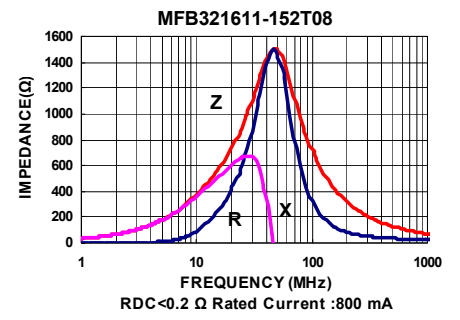
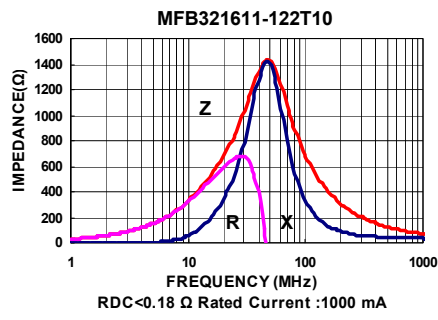
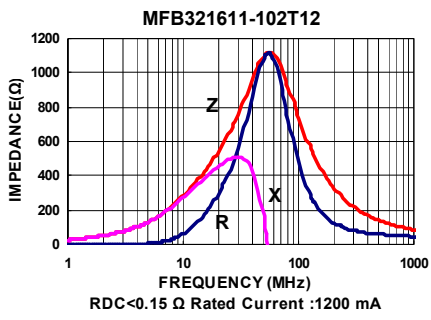
Part Number	Test Frequency (MHz)	Impedance ($\Omega \pm 25\%$)	DC Resistance (Ω) Max	Rated current (mA) Max
MFB321611-100T60	100	10 $\pm 30\%$	0.015	6000
MFB321611-190T60	100	19	0.015	6000
MFB321611-300T40	100	30	0.015	4000
MFB321611-600T30	100	60	0.025	3000
MFB321611-101T30	100	100	0.030	3000
MFB321611-121T30	100	120	0.030	3000
MFB321611-221T20	100	220	0.050	2000
MFB321611-301T20	100	300	0.060	2000
MFB321611-601T20	100	600	0.100	2000
MFB321611-102T12	50	1000	0.150	1200
MFB321611-122T10	50	1200	0.180	1000
MFB321611-152T08	50	1500	0.200	800

Test Instruments : Agilent E4991A Impedance / Material Analyzer



SMD Multilayer Ferrite Chip Beads

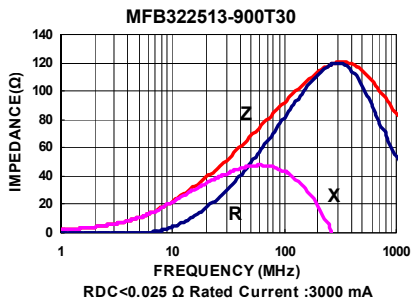
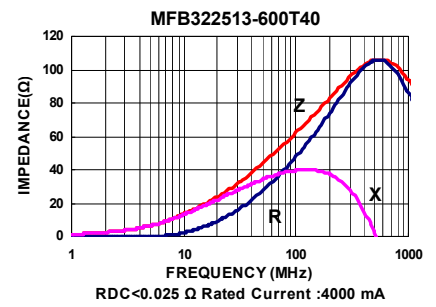
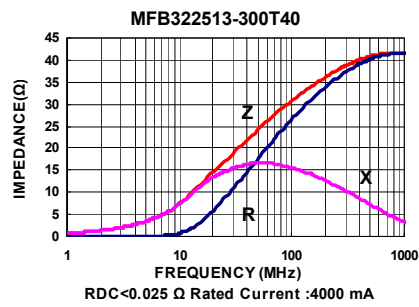
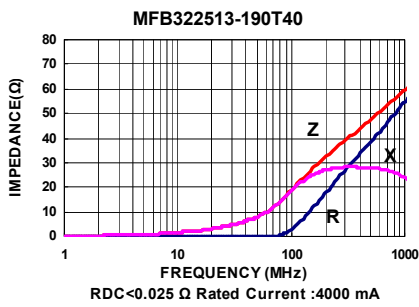
Test Instruments : Agilent E4991A Impedance / Material Analyzer



Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance ($\Omega \pm 25\%$)	DC Resistance (Ω) Max	Rated current (mA) Max
MFB322513-190T40	100	19	0.025	4000
MFB322513-300T40	100	30	0.025	4000
MFB322513-600T40	100	60	0.025	4000
MFB322513-900T30	100	90	0.025	3000
MFB322513-121T25	100	120	0.030	2500

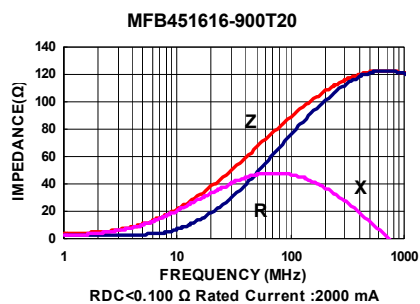
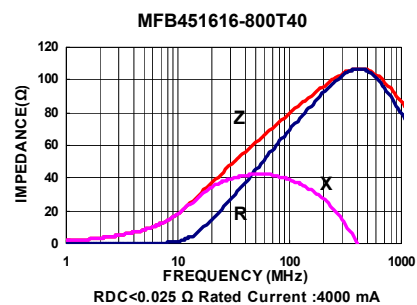
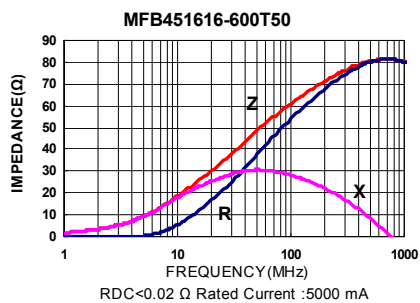
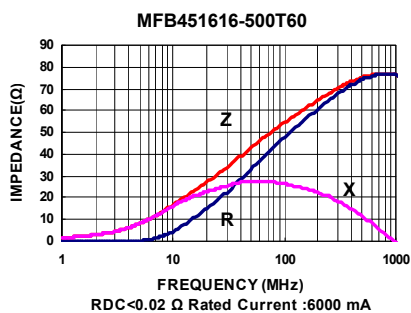
Test Instruments : Agilent E4991A Impedance / Material Analyzer



Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance ($\Omega \pm 25\%$)	DC Resistance (Ω) Max	Rated current (mA) Max
MFB451616-190T60	100	19	0.020	6000
MFB451616-400T60	100	40	0.020	6000
MFB451616-500T60	100	50	0.020	6000
MFB451616-600T50	100	60	0.020	5000
MFB451616-800T40	100	80	0.025	4000
MFB451616-900T20	100	90	0.100	2000

Test Instruments : Agilent E4991A Impedance / Material Analyzer



Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance ($\Omega \pm 25\%$)	DC Resistance (Ω) Max	Rated current (mA) Max
MFB453215-190T60	100	19	0.030	6000
MFB453215-300T60	100	30	0.030	6000
MFB453215-600T60	100	60	0.030	6000
MFB453215-700T60	100	70	0.030	6000
MFB453215-121T40	100	120	0.030	4000
MFB453215-151T40	100	150	0.030	4000

Test Instruments : Agilent E4991A Impedance / Material Analyzer

