

# MULTILAYER TYPE

## FERRITE CHIP BEAD



- Impedance Range: 7 to 2000  $\Omega$ .
- Operating Temperature Range: -55°C to +125°C.
- Soldering Method: Reflow or Wave Soldering, suitable for lead free soldering.
- Packaging Method: Tape & Reel (per EIA Specifications).
- Storage Temperature: max. 40°C, RH 70%.
- ROHS compliant.

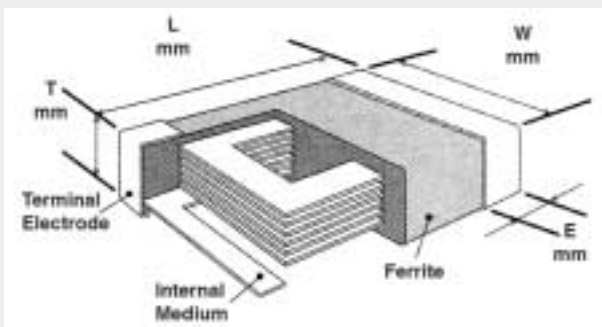


### Application Field

- Filtering between analog and digital circuitry, clock generation circuitry, I/O interconnects, isolation between RF noisy circuits and logic devices susceptible to functional degradation, power supply filtering to prevent conducted RF energy from corrupting the power generation circuitry, high frequency EMI prevention of computers, printers, VCRs, TVs and portable telephones.

### Part Number Code

<b>MLB</b>	<b>160808</b>	-	<b>0010</b>	<b>A</b>	<b>F</b>
Series Name	Size Code		Impedance (ex.0010 =10 $\Omega \pm 25\%$ )	Classification (A, B, and P)	Rated Current
					A= 50mA
					G= 400mA
					B= 80mA
					H= 500mA
					C= 100mA
					I= 600mA
					D= 150mA
					J= 700mA
					E= 200mA
					K= 800mA
					F= 300mA



### Shape and Dimensions

Size code	Size	Length(L)	Width (W)	Thickness (T)	Electrode Width (E)
0402	100505	1.0 $\pm$ 0.1	0.5 $\pm$ 0.1	0.5 $\pm$ 0.1	0.25 $\pm$ 0.1
0603	160808	1.6 $\pm$ 0.15	0.8 $\pm$ 0.15	0.8 $\pm$ 0.15	0.3 $\pm$ 0.2
0805	201209	2.0 $\pm$ 0.2	1.25 $\pm$ 0.2	0.9 $\pm$ 0.2	0.5 $\pm$ 0.3
1206	321611	3.2 $\pm$ 0.2	1.6 $\pm$ 0.2	1.1 $\pm$ 0.2	0.5 $\pm$ 0.3
1210	322513	3.2 $\pm$ 0.2	2.5 $\pm$ 0.2	1.3 $\pm$ 0.2	0.5 $\pm$ 0.3
1806	451616	4.5 $\pm$ 0.25	1.6 $\pm$ 0.2	1.6 $\pm$ 0.2	0.6 $\pm$ 0.4
1812	453215	4.5 $\pm$ 0.25	3.2 $\pm$ 0.25	1.5 $\pm$ 0.25	0.6 $\pm$ 0.4

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### Specifications

P/N with standard rated current	Impedance @100MHz +/- 25%	Test Freq. (MHz)	DCR max.(Ω)	Standard Rated Current (mA)	Rated Current Selection Chart (mA)										
					A	B	C	D	E	F	G	H	I	J	K
MLB-100505-0020AF	20	100	0.20	300	50	80	100	150	200	300	400	-	-	-	-
MLB-100505-0030AF	30	100	0.25	300	50	80	100	150	200	300	400	-	-	-	-
MLB-100505-0040AF	40	100	0.30	300	50	80	100	150	200	300	400	-	-	-	-
MLB-100505-0060AF	60	100	0.35	300	50	80	100	150	200	300	400	-	-	-	-
MLB-100505-0070AF	70	100	0.35	300	50	80	100	150	200	300	400	-	-	-	-
MLB-100505-0120AF	120	100	0.40	300	50	80	100	150	200	300	400	-	-	-	-
MLB-100505-0240AE	240	100	0.70	200	50	80	100	150	200	300	400	-	-	-	-
MLB-100505-0300AE	300	100	0.80	200	50	80	100	150	200	-	-	-	-	-	-
MLB-100505-0600AE	600	100	1.00	200	50	80	100	150	200	-	-	-	-	-	-
MLB-160808-0010AI	10	100	0.05	600	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0022AI	22	100	0.05	600	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0030AI	30	100	0.08	600	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0040AI	40	100	0.10	600	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0060AI	60	100	0.10	600	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0068AI	68	100	0.10	600	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0070AI	70	100	0.10	600	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0080AG	80	100	0.10	400	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0100AG	100	100	0.15	400	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0120AG	120	100	0.15	400	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0180AF	180	100	0.30	300	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0220AF	220	100	0.30	300	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0300AF	300	100	0.35	300	50	80	100	150	200	300	400	500	600	700	800
MLB-160808-0450AF	450	100	0.40	300	50	80	100	150	200	300	400	500	-	-	-
MLB-160808-0470AE	470	100	0.40	200	50	80	100	150	200	300	400	500	-	-	-
MLB-160808-0600AE	600	100	0.45	200	50	80	100	150	200	300	400	500	-	-	-
MLB-160808-0750AC	750	100	0.60	100	50	80	100	150	200	300	-	-	-	-	-
MLB-160808-1000AC	1000	100	0.60	100	50	80	100	150	200	300	-	-	-	-	-
MLB-201209-0007AI	7	100	0.05	600	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0011AI	11	100	0.05	600	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0017AI	17	100	0.05	600	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0026AI	26	100	0.05	600	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0032AI	32	100	0.05	600	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0040AI	40	100	0.05	600	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0060AI	60	100	0.15	600	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0080AI	80	100	0.15	600	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0090AI	90	100	0.15	600	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0120AH	120	100	0.15	500	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0150AH	150	100	0.15	500	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0180AH	180	100	0.20	500	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0220AH	220	100	0.20	500	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0300AH	300	100	0.20	500	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0400AH	400	100	0.30	500	50	80	100	150	200	300	400	500	600	700	800
MLB-201209-0600AH	600	100	0.30	500	50	80	100	150	200	300	400	500	600	700	-

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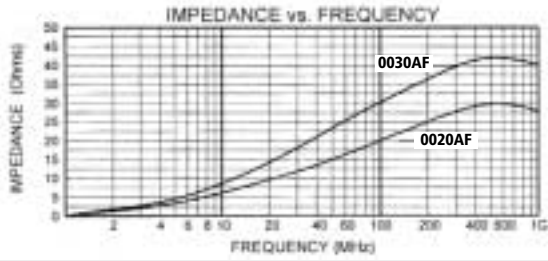
P/N with standard rated current	Impedance (Ω) +/- 25%	Test Freq. (MHz)	DCR max.(Ω)	Standard Rated Current (mA)	Rated Current Selection Chart (mA)										
					A	B	C	D	E	F	G	H	I	J	K
MLB-201209-0700AF	700	100	0.35	300	50	80	100	150	200	<b>300</b>	400	500	-	-	-
MLB-201209-1000AF	1000	100	0.35	300	50	80	100	150	200	<b>300</b>	400	500	-	-	-
MLB-201209-1500AE	1500	100	0.40	200	50	80	100	150	<b>200</b>	300	400	500	-	-	-
MLB-201209-2000AE	2000	100	0.50	200	50	80	100	150	<b>200</b>	300	400	-	-	-	-
MLB-201209-2200AE	2200	100	0.50	200	50	80	100	150	<b>200</b>	300	400	-	-	-	-
MLB-201209-2700AE	2700	100	0.65	200	50	80	100	150	<b>200</b>	300	400	-	-	-	-
MLB-321611-0019AI	19	100	0.05	600	50	80	100	150	200	300	400	500	<b>600</b>	700	800
MLB-321611-0026AI	26	100	0.05	600	50	80	100	150	200	300	400	500	<b>600</b>	700	800
MLB-321611-0031AI	31	100	0.05	600	50	80	100	150	200	300	400	500	<b>600</b>	700	800
MLB-321611-0050AI	50	100	0.08	600	50	80	100	150	200	300	400	500	<b>600</b>	700	800
MLB-321611-0070AI	70	100	0.10	600	50	80	100	150	200	300	400	500	<b>600</b>	700	800
MLB-321611-0090AH	90	100	0.15	500	50	80	100	150	200	300	400	<b>500</b>	600	700	800
MLB-321611-0120AH	120	100	0.15	500	50	80	100	150	200	300	400	<b>500</b>	600	700	800
MLB-321611-0150AH	150	100	0.15	500	50	80	100	150	200	300	400	<b>500</b>	600	700	800
MLB-321611-0200AH	200	100	0.20	500	50	80	100	150	200	300	400	<b>500</b>	600	700	800
MLB-321611-0220AH	220	100	0.20	500	50	80	100	150	200	300	400	<b>500</b>	600	700	800
MLB-321611-0300AH	300	100	0.20	500	50	80	100	150	200	300	400	<b>500</b>	600	700	800
MLB-321611-0600AH	600	100	0.30	500	50	80	100	150	200	300	400	<b>500</b>	600	-	-
MLB-321611-0800AE	800	100	0.30	200	50	80	100	150	<b>200</b>	300	400	500	600	-	-
MLB-321611-1000AE	1000	100	0.40	200	50	80	100	150	<b>200</b>	300	400	500	-	-	-
MLB-321611-1200AE	1200	100	0.40	200	50	80	100	150	<b>200</b>	300	400	500	-	-	-
MLB-321611-1500AE	1500	50	0.50	200	50	80	100	150	<b>200</b>	300	400	500	-	-	-
MLB-321611-2000AE	2000	30	0.50	200	50	80	100	150	<b>200</b>	300	400	500	-	-	-
MLB-322513-0031AG	31	100	0.30	400	50	80	100	150	200	300	<b>400</b>	500	600	700	800
MLB-322513-0060AG	60	100	0.30	400	50	80	100	150	200	300	<b>400</b>	500	600	700	800
MLB-322513-0090AG	90	100	0.30	400	50	80	100	150	200	300	<b>400</b>	500	600	700	800
MLB-451616-0068AH	68	100	0.10	500	50	80	100	150	200	300	400	<b>500</b>	600	700	800
MLB-451616-0080AG	80	100	0.10	400	50	80	100	150	200	300	<b>400</b>	500	600	700	800
MLB-451616-0100AF	100	100	0.20	300	50	80	100	150	200	<b>300</b>	400	500	600	700	800
MLB-451616-0150AE	150	100	0.30	200	50	80	100	150	<b>200</b>	300	400	500	600	700	800
MLB-453215-0070AE	70	100	0.40	200	50	80	100	150	<b>200</b>	300	400	500	600	700	800
MLB-453215-0080AE	80	100	0.40	200	50	80	100	150	<b>200</b>	300	400	500	600	700	800
MLB-453215-0120AE	120	100	0.40	200	50	80	100	150	<b>200</b>	300	400	500	600	700	800

**200** Standard rated current  
150 available option

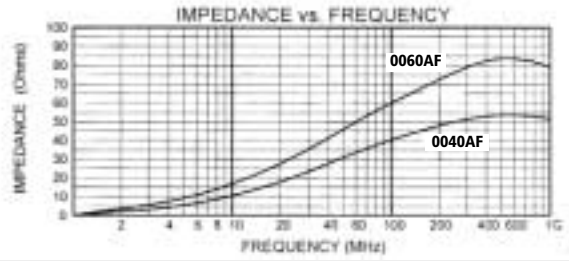
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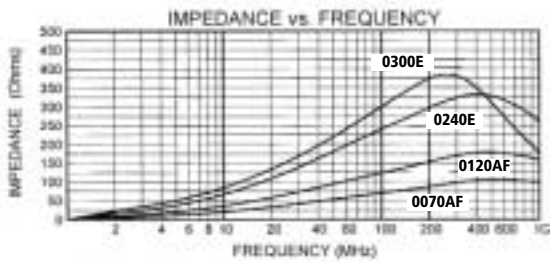
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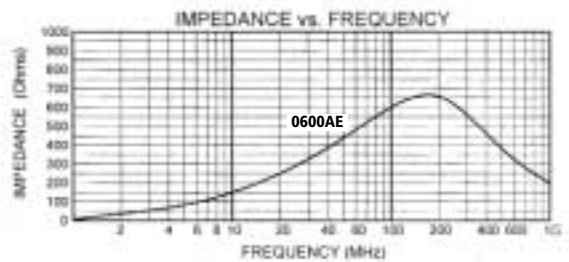
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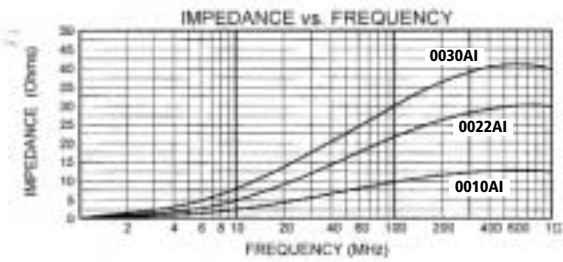
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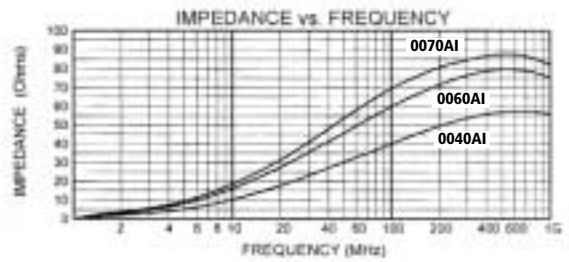
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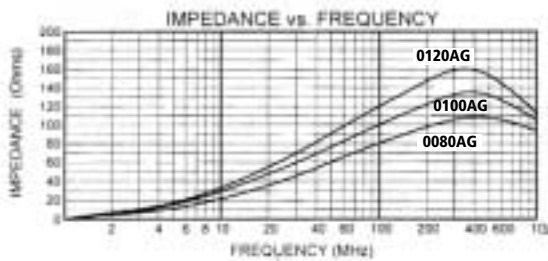
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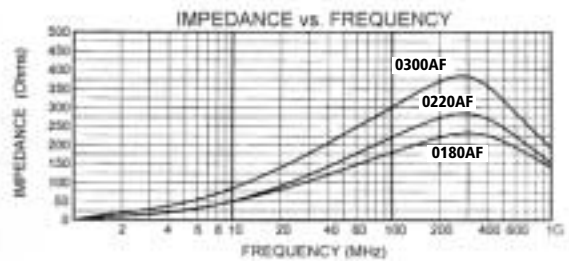
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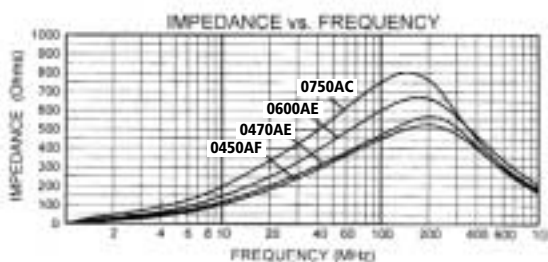
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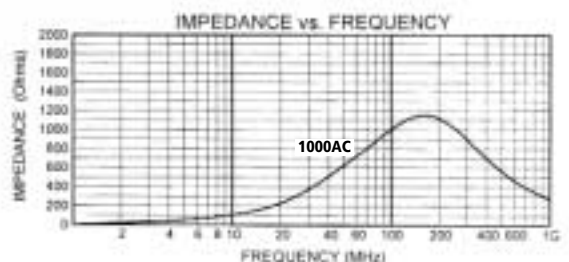
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**MLB-160808-0450AF,-0470AE,-0600AE,-0750AC**



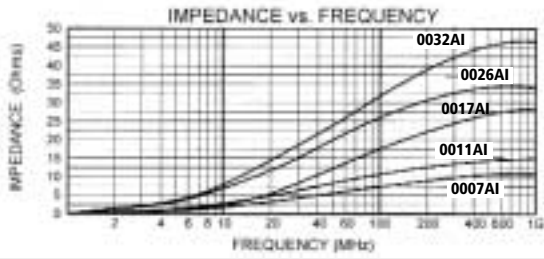
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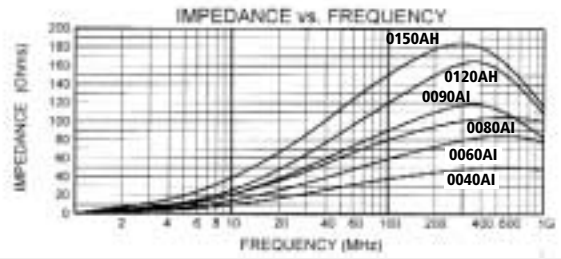
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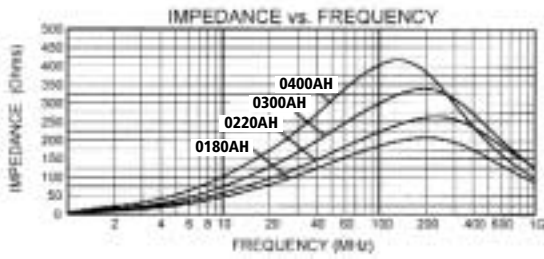
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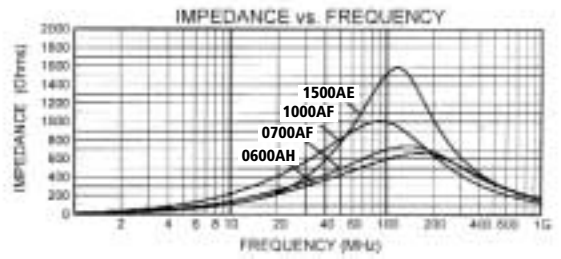
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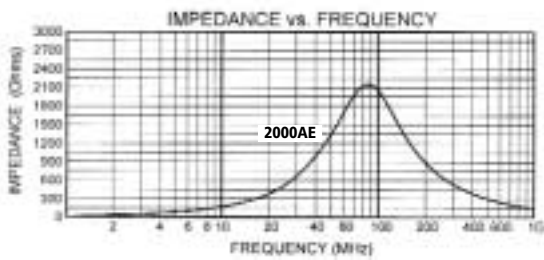
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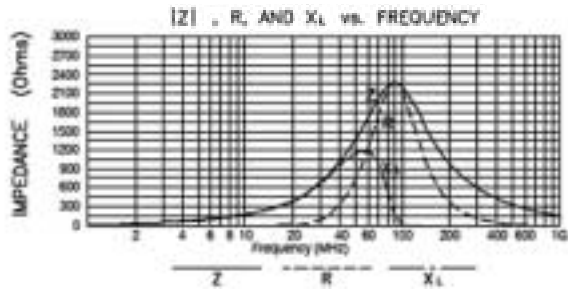
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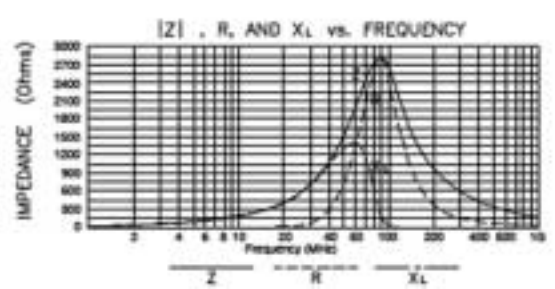
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**MLB-201209-2200AE**



**MLB-201209-2700AE**

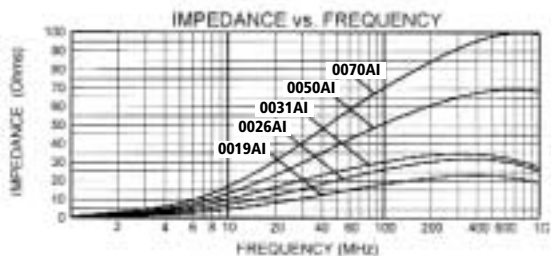


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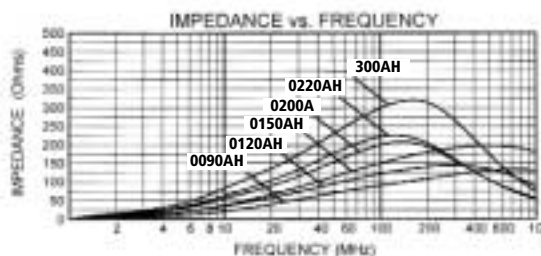
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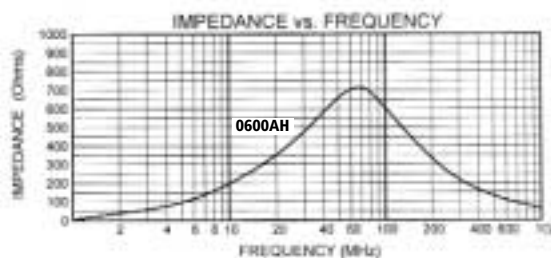
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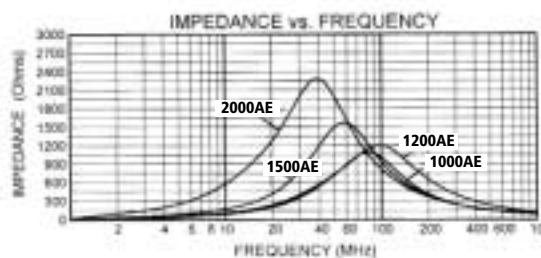
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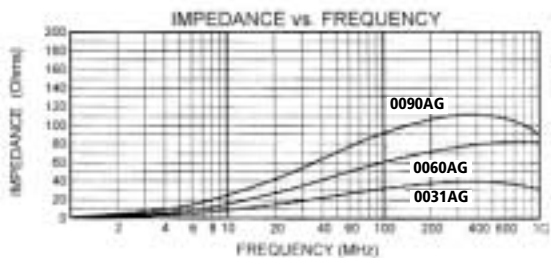
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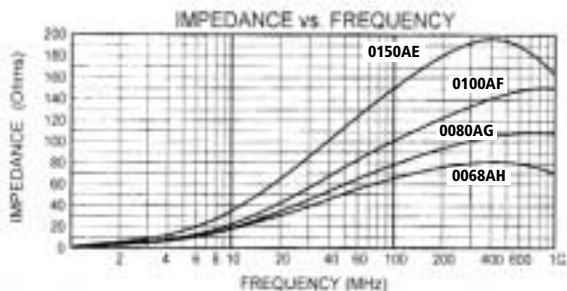
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-1500AE, -2000AE**



**MLB-322513-0031AG, -0060AG -0090AG**



**MLB-451616-0068AH, -0080AG, -0100AF, 0150AE**



**MLB-453215-0070AE, -0080AE, -0120AE**

