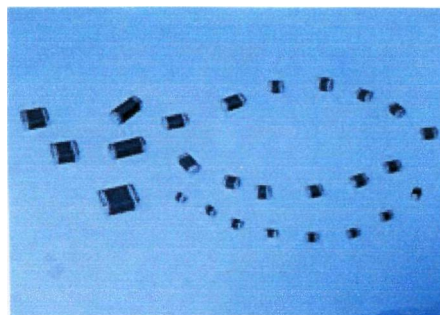


## APPLICATIONS

1. EMI suppression for various electric equipment by the addition of impedance to the circuit
2. It is particular effective with unstable grounding
3. High frequency EMI prevention of computers , printers , VCRs , TVs and protable telephone.

## ORDERING CODE.

FBM- 11- 160808- 121 A- T  
 (1) (2) (3) (4) (5) (6)



- (1) PRODUCT TYPE CODE  
 (2) MATERIAL CODE  
 (3) SIZE CODE  
 (4) IMPEDANCE VALUE CODE  
 Example : 121=120£[, 280=28£[  
 (5) AXX MEANS HIGH CURRENT RATING  
 Example : A10 means 1000mA  
 A08 means 800mA....etc  
 (6) TAPING

## ELECTRICAL CHARACTERISTICS.

| SIZE               | TYPE           | ITEM               | Impedance Ohm | Test Frequency (MHz) | DC Resistance Ohm max | Rated Current (mA) max |
|--------------------|----------------|--------------------|---------------|----------------------|-----------------------|------------------------|
| 0402               | Standard       | FBM-11-100505-100T | 10±25%        | 100                  | 0.3                   | 150                    |
|                    |                | FBM-11-100505-300T | 30±25%        | 100                  | 0.3                   | 150                    |
|                    |                | FBM-11-100505-700T | 70±25%        | 100                  | 0.3                   | 150                    |
|                    |                | FBM-11-100505-900T | 90±25%        | 100                  | 0.4                   | 150                    |
|                    |                | FBM-11-100505-121T | 120±25%       | 100                  | 0.5                   | 150                    |
|                    |                | FBM-11-100505-301T | 300±25%       | 100                  | 0.8                   | 100                    |
|                    |                | FBM-11-100505-401T | 400±25%       | 100                  | 0.8                   | 100                    |
|                    |                | FBM-11-100505-501T | 500±25%       | 100                  | 0.9                   | 100                    |
|                    |                | FBM-11-100505-601T | 600±25%       | 100                  | 1.0                   | 100                    |
|                    |                | FBM-11-100505-801T | 800±25%       | 100                  | 1.1                   | 50                     |
| FBM-11-100505-102T | 1000±25%       | 100                | 1.2           | 50                   |                       |                        |
| 0402               | High Frequency | FBM-10-100505-260T | 26±25%        | 100                  | 0.3                   | 150                    |
|                    |                | FBM-10-100505-600T | 60±25%        | 100                  | 0.4                   | 150                    |
|                    |                | FBM-10-100505-121T | 120±25%       | 100                  | 0.5                   | 150                    |
|                    |                | FBM-10-100505-151T | 150±25%       | 100                  | 0.5                   | 150                    |
|                    |                | FBM-10-100505-201T | 200±25%       | 100                  | 0.6                   | 100                    |
|                    |                | FBM-10-100505-221T | 220±25%       | 100                  | 0.8                   | 100                    |
|                    |                | FBM-10-100505-301T | 300±25%       | 100                  | 0.9                   | 100                    |
|                    |                | FBM-10-100505-451T | 450±25%       | 100                  | 1.0                   | 100                    |
|                    |                | FBM-10-100505-601T | 600±25%       | 100                  | 1.1                   | 50                     |
| FBM-10-100505-751T | 750±25%        | 100                | 1.2           | 50                   |                       |                        |
| 0603               | Standard       | FBM-11-160808-280T | 28±25%        | 100                  | 0.2                   | 300                    |
|                    |                | FBM-11-160808-800T | 80±25%        | 100                  | 0.2                   | 300                    |
|                    |                | FBM-11-160808-121T | 120±25%       | 100                  | 0.2                   | 200                    |
|                    |                | FBM-11-160808-221T | 220±25%       | 100                  | 0.4                   | 200                    |
|                    |                | FBM-11-160808-601T | 600±25%       | 100                  | 0.6                   | 200                    |
|                    |                | FBM-11-160808-102T | 1000±25%      | 100                  | 1.0                   | 100                    |

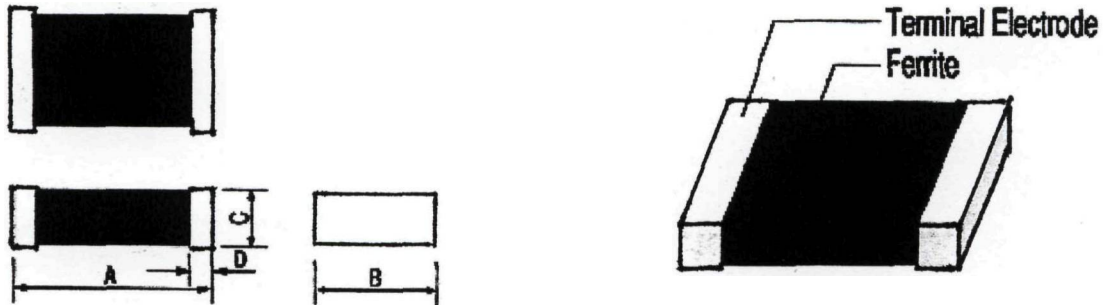
**ELECTRICAL CHARACTERISTICS.**

| SIZE | TYPE                      | ITEM                  | Impedance Ohm | Test Frequency (MHz) | DC Resistance Ohm max | Rated Current (mA) max |
|------|---------------------------|-----------------------|---------------|----------------------|-----------------------|------------------------|
| 0603 | High Frequency            | FBM-10-160808-300T    | 30±25%        | 100                  | 0.3                   | 300                    |
|      |                           | FBM-10-160808-750T    | 75±25%        | 100                  | 0.3                   | 300                    |
|      |                           | FBM-10-160808-800T    | 80±25%        | 100                  | 0.3                   | 300                    |
|      |                           | FBM-10-160808-121T    | 120±25%       | 100                  | 0.2                   | 200                    |
|      |                           | FBM-10-160808-221T    | 220±20%       | 100                  | 0.4                   | 200                    |
|      |                           | FBM-10-160808-301T    | 300±25%       | 100                  | 0.5                   | 200                    |
|      |                           | FBM-10-160808-601T    | 600±25%       | 100                  | 0.6                   | 200                    |
|      |                           | FBM-10-160808-102T    | 1000±25%      | 100                  | 1.0                   | 100                    |
| 0805 | Standard                  | FBM-11-201209-170T    | 17±25%        | 100                  | 0.1                   | 600                    |
|      |                           | FBM-11-201209-900T    | 90±25%        | 100                  | 0.15                  | 300                    |
|      |                           | FBM-11-201209-121T    | 120±25%       | 100                  | 0.15                  | 300                    |
|      |                           | FBM-11-201209-221T    | 220±25%       | 100                  | 0.4                   | 300                    |
|      |                           | FBM-11-201209-301T    | 300±25%       | 100                  | 0.4                   | 200                    |
|      |                           | FBM-11-201209-401T    | 400±25%       | 100                  | 0.4                   | 200                    |
|      |                           | FBM-11-201209-471T    | 470±25%       | 100                  | 0.5                   | 200                    |
|      |                           | FBM-11-201209-601T    | 600±25%       | 100                  | 0.5                   | 200                    |
|      |                           | FBM-11-201209-102T    | 1000±25%      | 100                  | 0.8                   | 200                    |
| 0805 | High Frequency            | FBM-10-201209-260T    | 26±25%        | 100                  | 0.2                   | 500                    |
|      |                           | FBM-10-201209-600T    | 60±25%        | 100                  | 0.3                   | 400                    |
|      |                           | FBM-10-201209-121T    | 120±25%       | 100                  | 0.3                   | 300                    |
|      |                           | FBM-10-201209-201T    | 200±25%       | 100                  | 0.35                  | 300                    |
|      |                           | FBM-10-201209-221T    | 220±25%       | 100                  | 0.4                   | 300                    |
|      |                           | FBM-10-201209-301T    | 300±25%       | 100                  | 0.5                   | 200                    |
|      |                           | FBM-10-201209-601T    | 600±25%       | 100                  | 0.6                   | 200                    |
|      |                           | FBM-10-201209-102T    | 1000±25%      | 100                  | 0.8                   | 200                    |
|      |                           | FBM-10-201209-222T    | 2200±25%      | 100                  | 0.6                   | 200                    |
| 1206 | Standard                  | FBM-11-321611-260T    | 26±25%        | 100                  | 0.15                  | 500                    |
|      |                           | FBM-11-321611-320T    | 32±25%        | 100                  | 0.15                  | 500                    |
|      |                           | FBM-11-321611-900T    | 90±25%        | 100                  | 0.3                   | 400                    |
|      |                           | FBM-11-321611-151T    | 150±25%       | 100                  | 0.4                   | 400                    |
|      |                           | FBM-11-321611-601T    | 600±25%       | 100                  | 0.6                   | 200                    |
|      |                           | FBM-11-321611-152T    | 1500±25%      | 50                   | 0.9                   | 100                    |
|      |                           | FBM-11-321611-202T    | 2000±25%      | 30                   | 1.2                   | 100                    |
| 1206 | High Frequency            | FBM-10-321611-190T    | 19±25%        | 100                  | 0.1                   | 500                    |
|      |                           | FBM-10-321611-700T    | 70±25%        | 100                  | 0.3                   | 500                    |
| 0805 | Special Type              | FBM-15-201209-121T    | 120±25%       | 100                  | 0.3                   | 400                    |
| 1206 |                           | FBM-15-321611-600T    | 60±25%        | 100                  | 0.3                   | 400                    |
| 0603 |                           | FBM-09-160808-121T    | 120±25%       | 100                  | 0.35                  | 200                    |
|      |                           | FBM-09-160808-241T    | 240±25%       | 100                  | 0.35                  | 200                    |
| 0603 | High Current StandardType | FBM-11-160808-300A10T | 30±25%        | 100                  | 0.05                  | 1000                   |
|      |                           | FBM-11-160808-600A30T | 60±25%        | 100                  | 0.04                  | 3000                   |
|      |                           | FBM-11-160808-121A20T | 120±25%       | 100                  | 0.1                   | 2000                   |
|      |                           | FBM-11-160808-301A20T | 300±25%       | 100                  | 0.1                   | 2000                   |
| 0805 | High Current StandardType | FBM-11-201209-100A60T | 80±25%        | 100                  | 0.01                  | 6000                   |
|      |                           | FBM-11-201209-121A40T | 120±25%       | 100                  | 0.035                 | 4000                   |
|      |                           | FBM-11-201209-601A20T | 600±25%       | 100                  | 0.10                  | 2000                   |
| 1206 | High Current StandardType | FBM-11-321611-300A60T | 30±25%        | 100                  | 0.01                  | 6000                   |
|      |                           | FBM-11-321611-800A40T | 80±25%        | 100                  | 0.035                 | 4000                   |
|      |                           | FBM-11-321611-121A30T | 120±25%       | 100                  | 0.04                  | 3000                   |
| 1210 | High Current StandardType | FBM-11-322513-151A50T | 150±25%       | 100                  | 0.02                  | 5000                   |
|      |                           | FBM-11-322513-201A40T | 200±25%       | 100                  | 0.035                 | 4000                   |
|      |                           | FBM-11-322513-301A30T | 300±25%       | 100                  | 0.04                  | 3000                   |
| 1806 | High Current StandardType | FBM-11-451616-600A60T | 60±25%        | 100                  | 0.01                  | 6000                   |
|      |                           | FBM-11-451616-800A40T | 80±25%        | 100                  | 0.03                  | 4000                   |

**ELECTRICAL CHARACTERISTICS.**

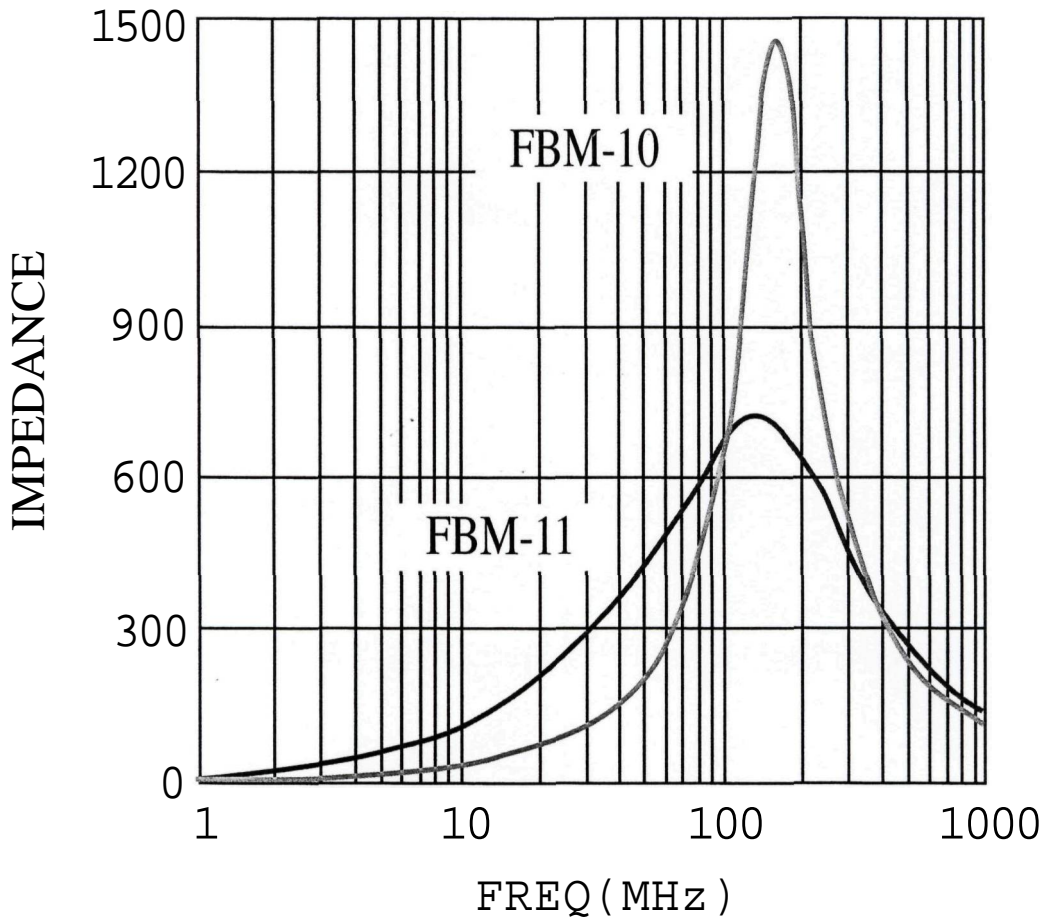
| SIZE                  | TYPE                       | ITEM                  | Impedance Ohm         | Test Frequency (MHz) | DC Resistance Ohm max | Rated Current (mA) max |
|-----------------------|----------------------------|-----------------------|-----------------------|----------------------|-----------------------|------------------------|
| 1812                  |                            | FBM-11-453215-900A60T | 90±25%                | 100                  | 0.01                  | 6000                   |
|                       |                            | FBM-11-453215-121A15T | 120±25%               | 100                  | 0.05                  | 1500                   |
|                       |                            | FBM-11-453215-121A40T | 120±25%               | 100                  | 0.03                  | 4000                   |
|                       |                            | FBM-11-453215-151A50T | 150±25%               | 100                  | 0.02                  | 5000                   |
| 0603                  | High Current Standard Type | FBM-11-160808-600A05T | 60±25%                | 100                  | 0.1                   | 500                    |
| 0805                  |                            | FBM-11-201209-220A10T | 22±25%                | 100                  | 0.05                  | 1000                   |
|                       |                            | FBM-11-201209-300A30T | 30±25%                | 100                  | 0.015                 | 3000                   |
|                       |                            | FBM-11-201209-330A40T | 33±25%                | 100                  | 0.008                 | 4000                   |
|                       |                            | FBM-11-201209-470A10T | 47±25%                | 100                  | 0.008                 | 4000                   |
|                       |                            | FBM-11-201209-470A08T | 75±25%                | 100                  | 0.1                   | 800                    |
|                       |                            | FBM-11-201209-121A50T | 120±25%               | 100                  | 0.02                  | 5000                   |
|                       |                            | 1206                  | FBM-11-321611-480A60T | 48±25%               | 100                   | 0.005                  |
| FBM-11-321611-500A30T | 50±25%                     |                       | 100                   | 0.025                | 3000                  |                        |
| FBM-11-321611-800A40T | 80±25%                     |                       | 100                   | 0.01                 | 4000                  |                        |
| FBM-11-321611-121A30T | 120±25%                    |                       | 100                   | 0.025                | 3000                  |                        |

**SHAPE & DIMENSIONS**



UNIT:m/m

| TYPE                     | A                          | B                          | C                          | D                          |
|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| <b>FBM-100505 (0402)</b> | 1.0±0.10<br>(0.040±0.004)  | 0.5±0.1<br>(0.020±0.004)   | 0.5±0.1<br>(0.020±0.004)   | 0.25±0.1<br>(0.01±0.004)   |
| <b>FBM-160808 (0603)</b> | 1.60±0.20<br>(0.063±0.008) | 0.80±0.20<br>(0.031±0.008) | 0.80±0.20<br>(0.031±0.008) | 0.30±0.20<br>(0.012±0.008) |
| <b>FBM-201209 (0805)</b> | 2.00±0.20<br>(0.079±0.008) | 1.20±0.20<br>(0.047±0.008) | 0.90±0.20<br>(0.035±0.008) | 0.50±0.30<br>(0.020±0.012) |
| <b>FBM-321611 (1206)</b> | 3.20±0.20<br>(0.126±0.008) | 1.60±0.20<br>(0.063±0.008) | 1.10±0.20<br>(0.043±0.008) | 0.50±0.30<br>(0.020±0.012) |
| <b>FBM-321616 (1206)</b> | 3.20±0.20<br>(0.126±0.008) | 1.60±0.20<br>(0.063±0.008) | 1.60±0.20<br>(0.063±0.008) | 0.50±0.30<br>(0.020±0.012) |
| <b>FBM-322513 (1210)</b> | 3.20±0.20<br>(0.126±0.008) | 2.50±0.20<br>(0.098±0.008) | 1.30±0.20<br>(0.051±0.008) | 0.50±0.30<br>(0.020±0.012) |
| <b>FBM-451616 (1806)</b> | 4.50±0.20<br>(0.177±0.008) | 1.60±0.20<br>(0.063±0.008) | 1.60±0.20<br>(0.063±0.008) | 0.50±0.30<br>(0.020±0.012) |
| <b>FBM-453215 (1812)</b> | 4.50±0.20<br>(0.177±0.008) | 3.20±0.20<br>(0.126±0.008) | 1.50±0.20<br>(0.059±0.008) | 0.50±0.30<br>(0.020±0.012) |



■ Above impedance curve shows the impedance difference between FBM-11-201209-601 and FBM-10-201209-601

● **FEATURES:**

**FBM-11 Series: Standards Type**

The FBM-11 Series generates an impedance down to relatively low frequencies. The impedance consists of a resistance element and prevents signal ringing. Various impedances are available to match signal frequency.

**FBM-10 Series: High Frequency Type**

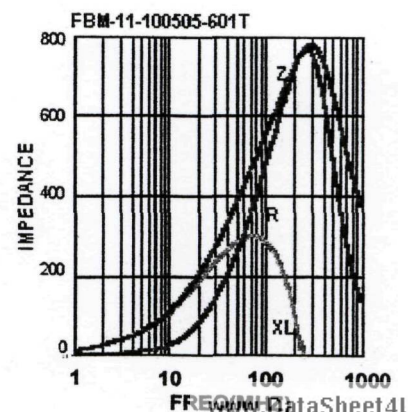
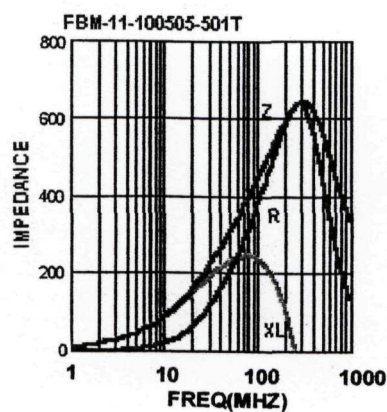
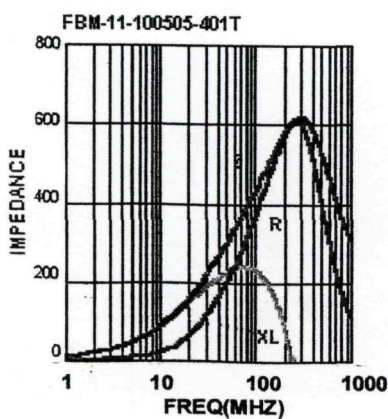
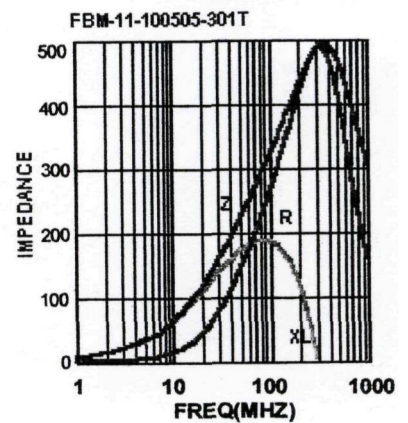
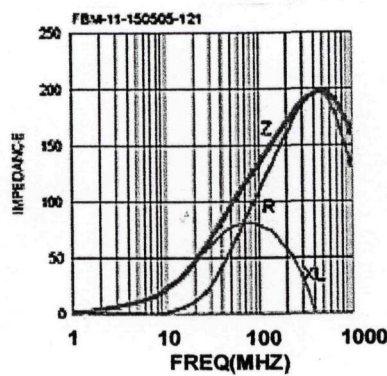
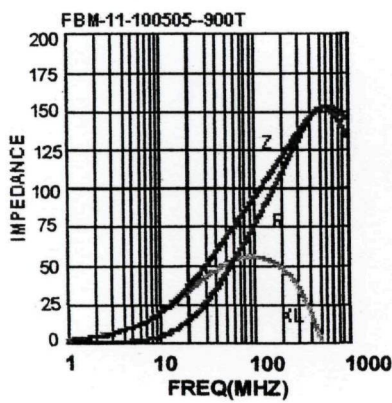
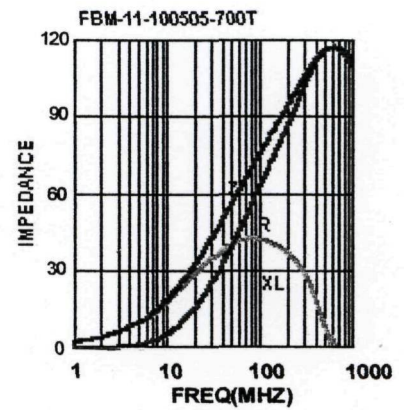
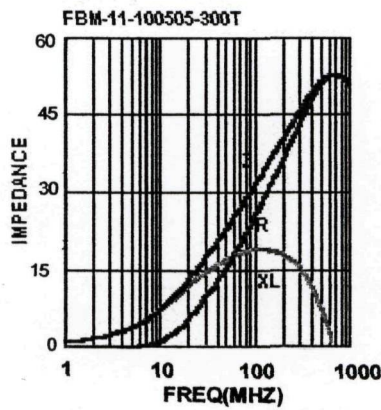
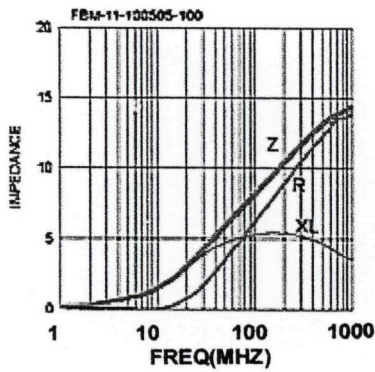
The FBM-10 Series can minimize attenuation of the signal wave form due to its sharp impedance characteristics. Maximum signal frequencies ranging from 10MHz to 100MHz are available.

**FBM-XX...A Series: High Current Type**

The FBM -...A Series can be used in high current circuits due to its low DC resistance. It can match power line to a maximum of 6A DC.

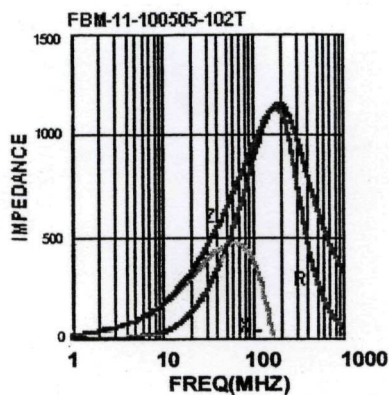
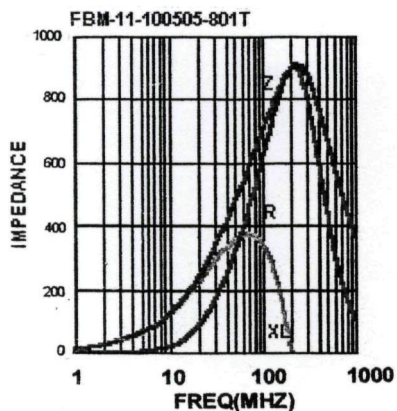
| ITEM              | Impedance $\Omega$ | Test Frequency (MHz) | DC Resistance $\Omega$ max | Rated Current (mA) max |
|-------------------|--------------------|----------------------|----------------------------|------------------------|
| FBM-11-100505-100 | 10 $\pm$ 25%       | 100                  | 0.3                        | 150                    |
| FBM-11-100505-300 | 30 $\pm$ 25%       | 100                  | 0.3                        | 150                    |
| FBM-11-100505-700 | 70 $\pm$ 25%       | 100                  | 0.3                        | 150                    |
| FBM-11-100505-900 | 90 $\pm$ 25%       | 100                  | 0.4                        | 150                    |
| FBM-11-100505-121 | 120 $\pm$ 25%      | 100                  | 0.5                        | 150                    |
| FBM-11-100505-301 | 300 $\pm$ 25%      | 100                  | 0.8                        | 100                    |
| FBM-11-100505-401 | 400 $\pm$ 25%      | 100                  | 0.8                        | 100                    |
| FBM-11-100505-501 | 500 $\pm$ 25%      | 100                  | 0.9                        | 100                    |
| FBM-11-100505-601 | 600 $\pm$ 25%      | 100                  | 1.0                        | 100                    |
| FBM-11-100505-801 | 800 $\pm$ 25%      | 100                  | 1.1                        | 50                     |
| FBM-11-100505-102 | 1000 $\pm$ 25%     | 100                  | 1.2                        | 50                     |

## TYPICAL ELECTRICAL CHARACTERISTIC CURVES



# MULTILAYER CHIP BEADS

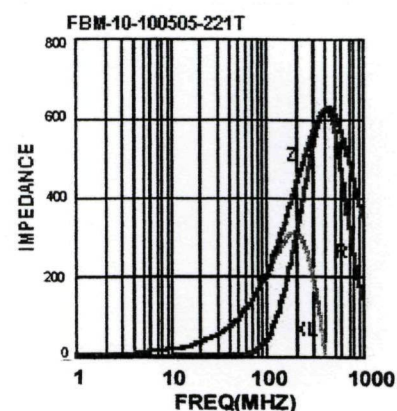
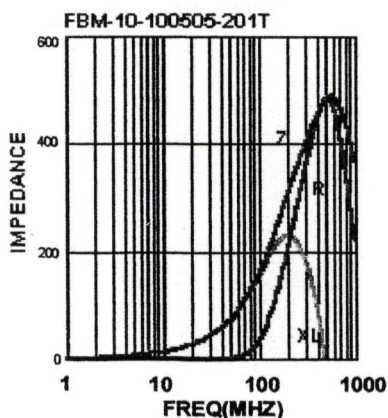
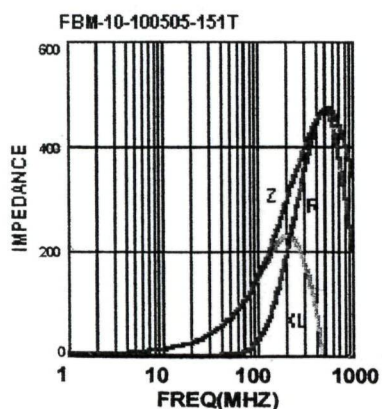
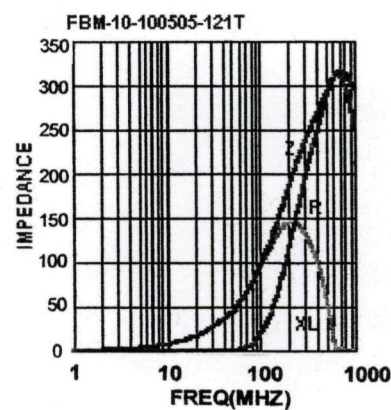
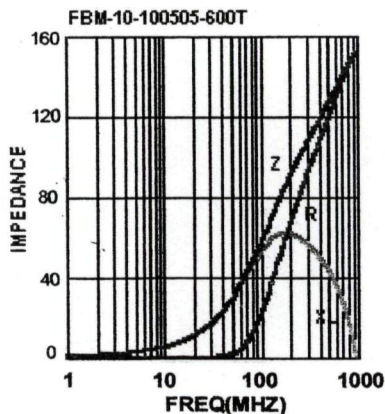
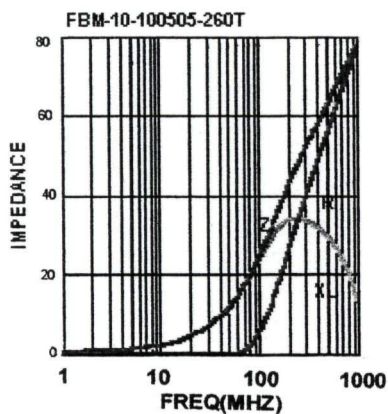
# FBM-10-1005 HIGH FREQUENCY

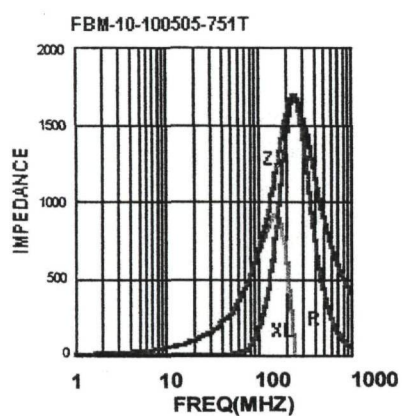
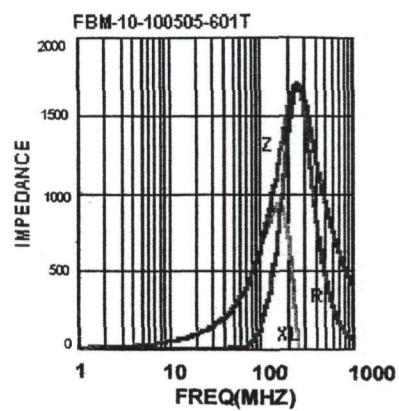
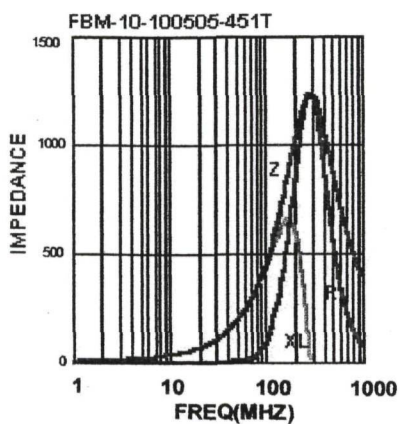
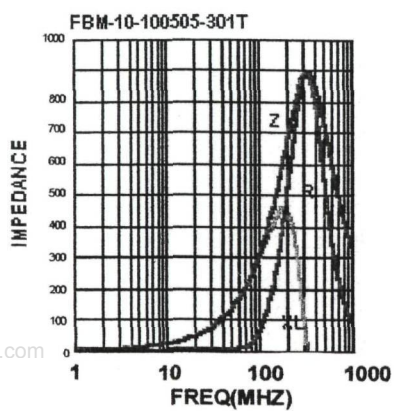


www.DataSheet4U.com

| ITEM              | Impedance<br>Ohm | Test<br>Frequency<br>(MHz) | DC<br>Resistance<br>Ohm max | Rated<br>Current<br>(mA)max |
|-------------------|------------------|----------------------------|-----------------------------|-----------------------------|
| FBM-10-100505-260 | 26±25%           | 100                        | 0.3                         | 150                         |
| FBM-10-100505-600 | 60±25%           | 100                        | 0.4                         | 150                         |
| FBM-10-100505-121 | 120±25%          | 100                        | 0.5                         | 100                         |
| FBM-10-100505-151 | 150±25%          | 100                        | 0.5                         | 150                         |
| FBM-10-100505-201 | 200±25%          | 100                        | 0.6                         | 100                         |
| FBM-10-100505-221 | 220±25%          | 100                        | 0.8                         | 100                         |
| FBM-10-100505-301 | 300±25%          | 100                        | 0.9                         | 100                         |
| FBM-10-100505-451 | 450±25%          | 100                        | 1.0                         | 100                         |
| FBM-10-100505-601 | 600±25%          | 100                        | 1.1                         | 50                          |
| FBM-10-100505-751 | 750±25%          | 100                        | 1.2                         | 50                          |

## TYPICAL ELECTRICAL CHARACTERISTIC CURVES

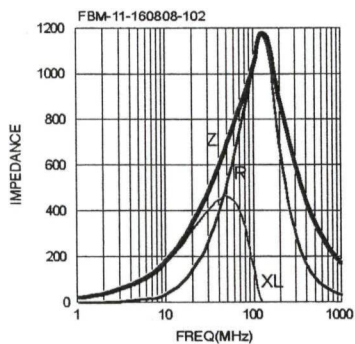
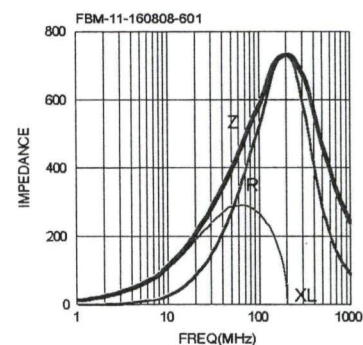
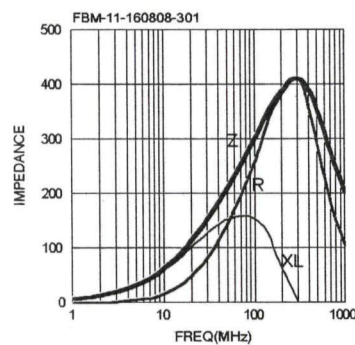
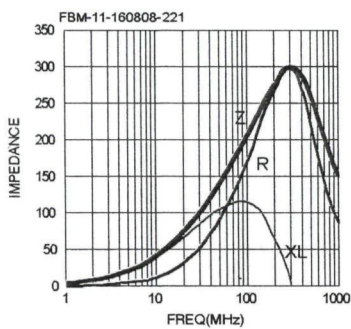
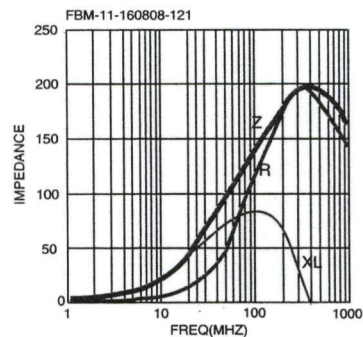
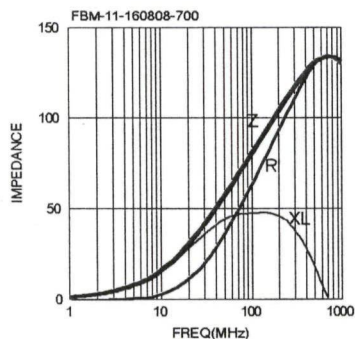
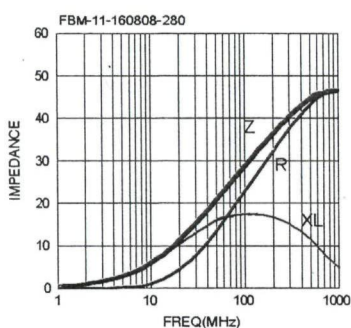




| ITEM              | Impedance $\Omega_m$ | Test Frequency (MHz) | DC Resistance $\Omega_{mmax}$ | Rated Current (mA) max |
|-------------------|----------------------|----------------------|-------------------------------|------------------------|
| FBM-11-160808-280 | 28±25%               | 100                  | 0.3                           | 300                    |
| FBM-11-160808-700 | 70±25%               | 100                  | 0.3                           | 300                    |
| FBM-11-160808-121 | 120±25%              | 100                  | 0.3                           | 200                    |
| FBM-11-160808-221 | 220±25%              | 100                  | 0.4                           | 200                    |
| FBM-11-160808-301 | 300±25%              | 100                  | 0.5                           | 200                    |
| FBM-11-160808-601 | 600±25%              | 100                  | 0.6                           | 200                    |
| FBM-11-160808-102 | 1000±25%             | 100                  | 1.0                           | 100                    |

## • TYPICAL ELECTRICAL CHARACTERISTIC CURVE

TEST INSTRUMENT: HP4291B

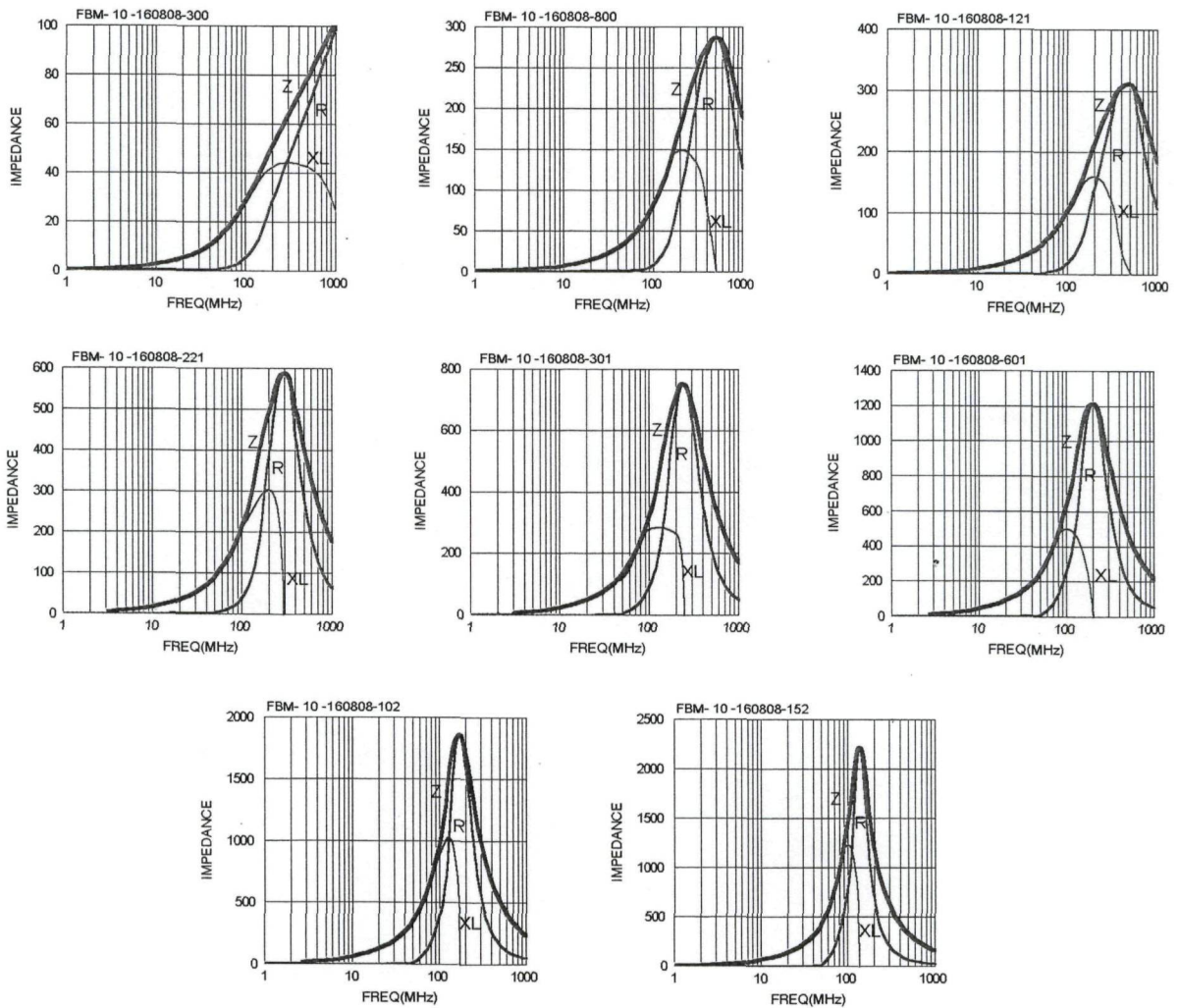




| ITEM              | Impedance $\Omega_{m}$ | Test Frequency (MHz) | DC Resistance $\Omega_{mmax}$ | Rated Current (mA) max |
|-------------------|------------------------|----------------------|-------------------------------|------------------------|
| FBM-10-160808-300 | 30 $\pm$ 25%           | 100                  | 0.3                           | 300                    |
| FBM-10-160808-800 | 80 $\pm$ 25%           | 100                  | 0.3                           | 300                    |
| FBM-10-160808-121 | 120 $\pm$ 25%          | 100                  | 0.3                           | 200                    |
| FBM-10-160808-221 | 220 $\pm$ 25%          | 100                  | 0.4                           | 200                    |
| FBM-10-160808-301 | 300 $\pm$ 25%          | 100                  | 0.5                           | 200                    |
| FBM-10-160808-601 | 600 $\pm$ 25%          | 100                  | 0.6                           | 200                    |
| FBM-10-160808-102 | 1000 $\pm$ 25%         | 100                  | 1.0                           | 100                    |
| FBM-10-160808-152 | 1500 $\pm$ 25%         | 100                  | 1.5                           | 50                     |

## ● TYPICAL ELECTRICAL CHARACTERISTIC CURVE

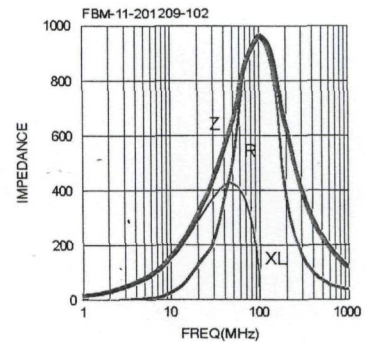
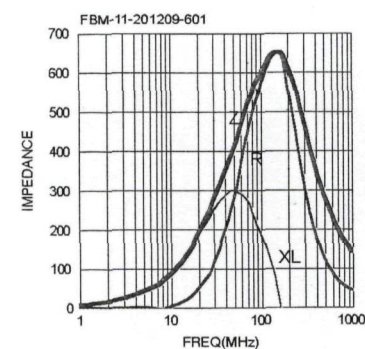
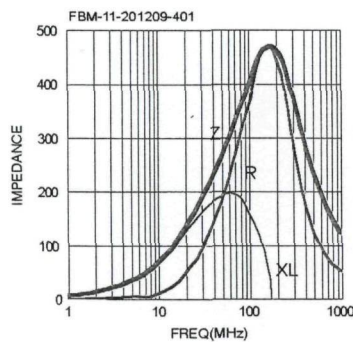
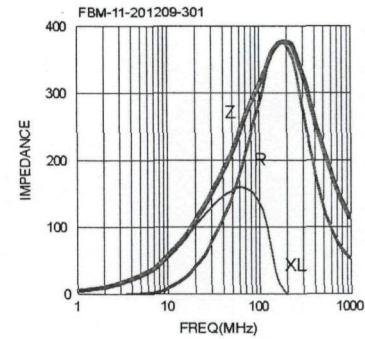
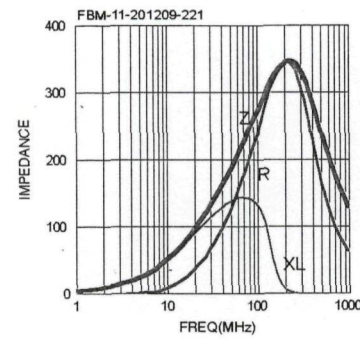
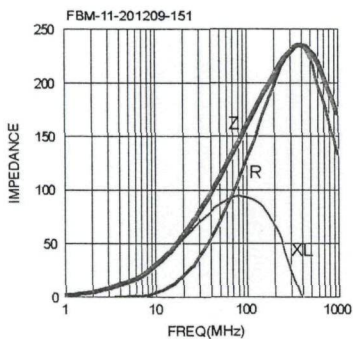
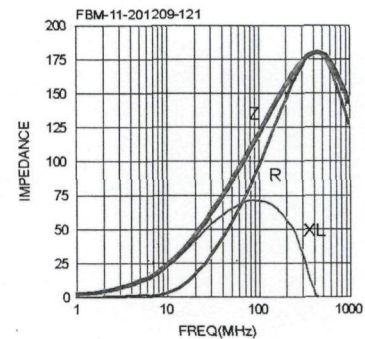
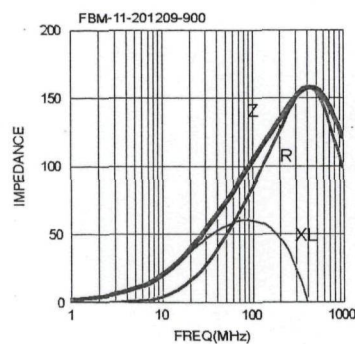
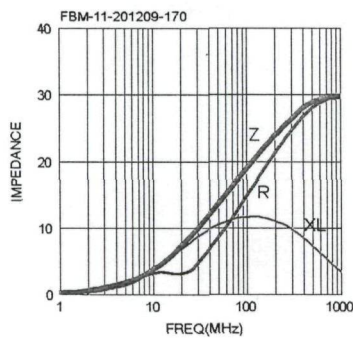
TEST INSTRUMENT: HP4291B



| ITEM              | Impedance<br>Ohm | Test Frequency<br>(MHz) | DC Resistance<br>Ohm max | Rated Current<br>(mA) max |
|-------------------|------------------|-------------------------|--------------------------|---------------------------|
| FBM-1-201209-170  | 17±25%           | 100                     | 0.1                      | 600                       |
| FBM-1-201209-900  | 90±25%           | 100                     | 0.3                      | 300                       |
| FBM-1-201209-121  | 120±25%          | 100                     | 0.3                      | 300                       |
| FBM-1-201209-151  | 150±25%          | 100                     | 0.4                      | 300                       |
| FBM-1-201209-221  | 220±25%          | 100                     | 0.4                      | 200                       |
| FBM-11-201209-301 | 300±25%          | 100                     | 0.5                      | 200                       |
| FBM-11-201209-401 | 400±25%          | 100                     | 0.5                      | 200                       |
| FBM-11-201209-601 | 600±25%          | 100                     | 0.6                      | 200                       |
| FBM-11-201209-102 | 1000±25%         | 100                     | 0.8                      | 200                       |

## ● TYPICAL ELECTRICAL CHARACTERISTIC CURVE

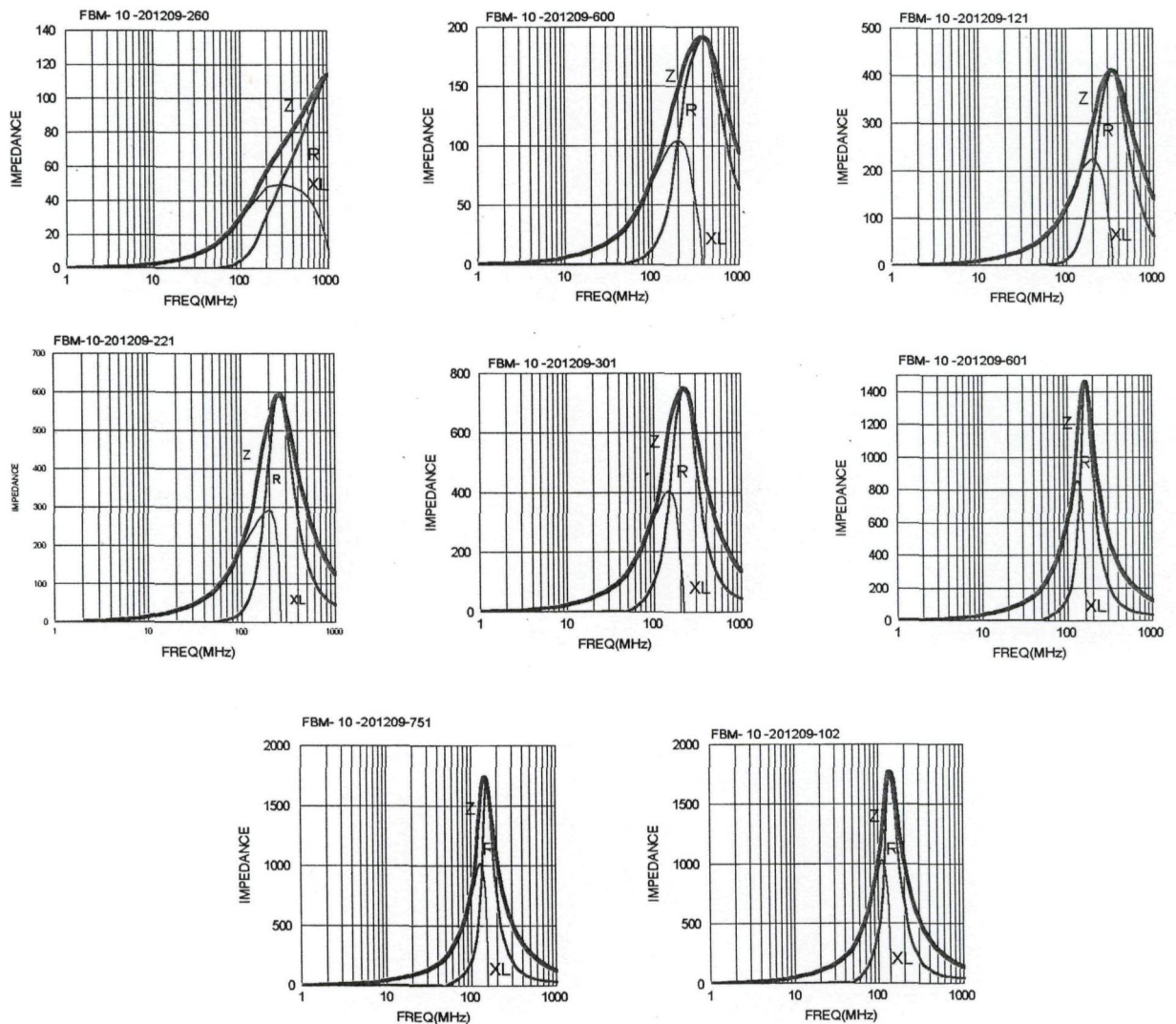
TEST INSTRUMENT: HP4291B



| ITEM              | Impedance<br>Ohm | Test Frequency<br>(MHz) | DC Resistance<br>Ohm max | Rated Current<br>(mA) max |
|-------------------|------------------|-------------------------|--------------------------|---------------------------|
| FBM-10-201209-260 | 26±25%           | 100                     | 0.2                      | 500                       |
| FBM-10-201209-600 | 60±25%           | 100                     | 0.3                      | 400                       |
| FBM-10-201209-121 | 120±25%          | 100                     | 0.3                      | 300                       |
| FBM-10-201209-221 | 220±25%          | 100                     | 0.4                      | 300                       |
| FBM-10-201209-301 | 300±25%          | 100                     | 0.5                      | 200                       |
| FBM-10-201209-601 | 600±25%          | 100                     | 0.6                      | 200                       |
| FBM-10-201209-751 | 750±25%          | 100                     | 0.7                      | 250                       |
| FBM-10-201209-102 | 1000±25%         | 100                     | 0.8                      | 200                       |
| FBM-10-201209-222 | 2200±25%         | 100                     | 0.6                      | 200                       |

## TYPICAL ELECTRICAL CHARACTERISTIC CURVE

TEST INSTRUMENT: HP4291B



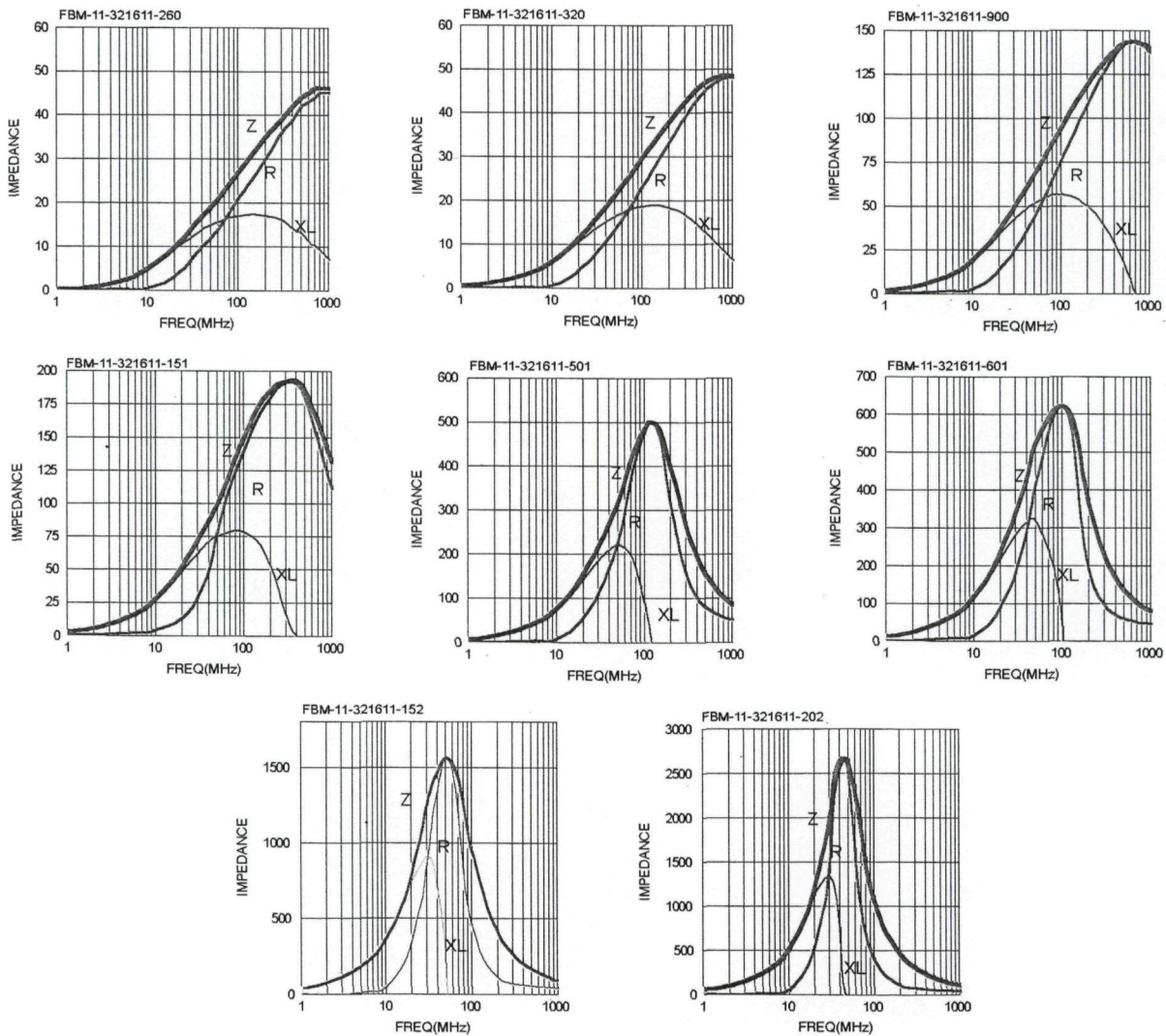
# MULTILAYER CHIP BEADS

# FBM-11-3216 STANDARD

| ITEM              | Impedance<br>Ohm | Test Frequency<br>(MHz) | DC Resistance<br>Ohm max | Rated Current<br>(mA) Max |
|-------------------|------------------|-------------------------|--------------------------|---------------------------|
| FBM-11-321611-260 | 26±25%           | 100                     | 0.15                     | 500                       |
| FBM-11-321611-320 | 32±25%           | 100                     | 0.15                     | 500                       |
| FBM-11-321611-900 | 90±25%           | 100                     | 0.3                      | 400                       |
| FBM-11-321611-151 | 150±25%          | 100                     | 0.4                      | 400                       |
| FBM-11-321611-501 | 500±25%          | 100                     | 0.6                      | 200                       |
| FBM-11-321611-601 | 600±25%          | 100                     | 0.6                      | 200                       |
| FBM-11-321611-152 | 1500±25%         | 50                      | 0.9                      | 100                       |
| FBM-11-321611-202 | 2000±25%         | 30                      | 1.2                      | 100                       |

## ● TYPICAL ELECTRICAL CHARACTERISTIC CURVE

TEST INSTRUMENT: HP4291B

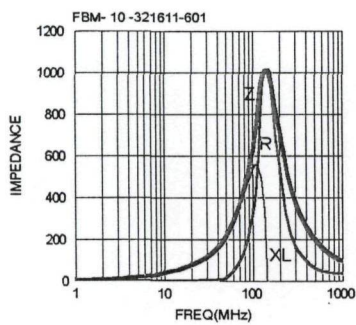
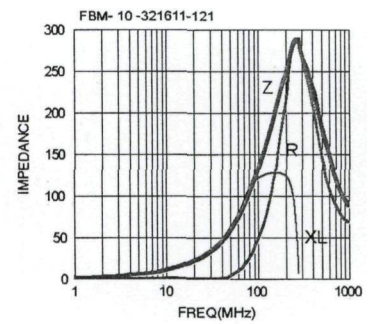
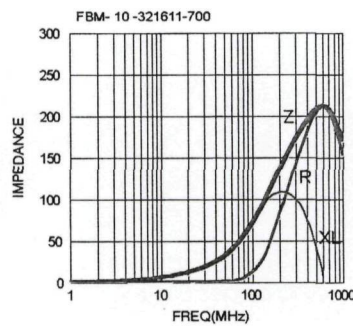
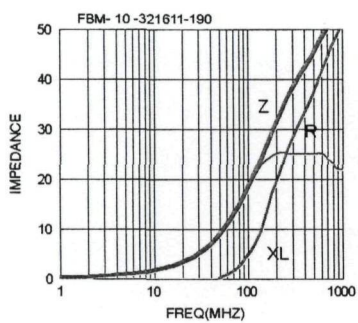


| ITEM              | Impedance<br>Ohm | Test Frequency<br>(MHz) | DC Resistance<br>Ohm max | Rated Current<br>(mA) max |
|-------------------|------------------|-------------------------|--------------------------|---------------------------|
| FBM-10-321611-190 | 19±25%           | 100                     | 0.1                      | 500                       |
| FBM-10-321611-700 | 70±25%           | 100                     | 0.3                      | 500                       |
| FBM-10-321611-121 | 120±25%          | 100                     | 0.3                      | 400                       |
| FBM-10-321611-601 | 600±25%          | 100                     | 0.4                      | 200                       |

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## • TYPICAL ELECTRICAL CHARACTERISTIC CURVE

TEST INSTRUMENT: HP4291B

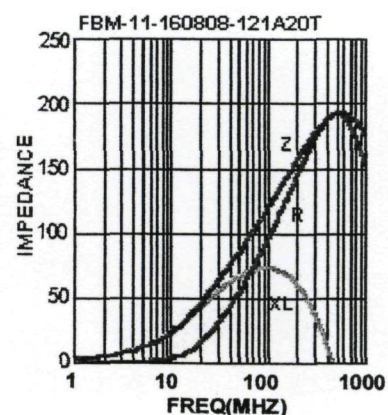
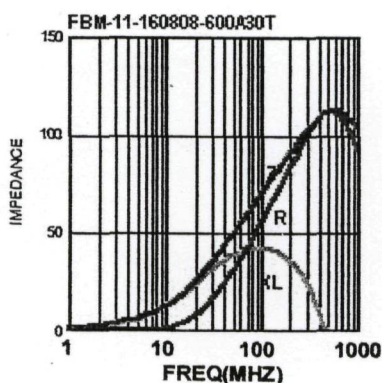
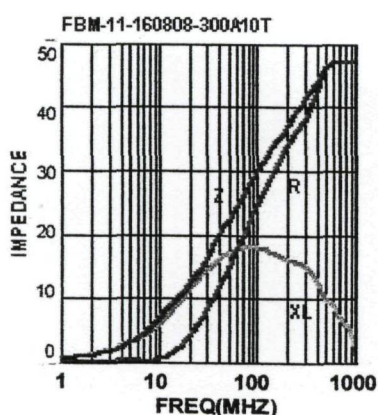


# MULTILAYER CHIP BEADS

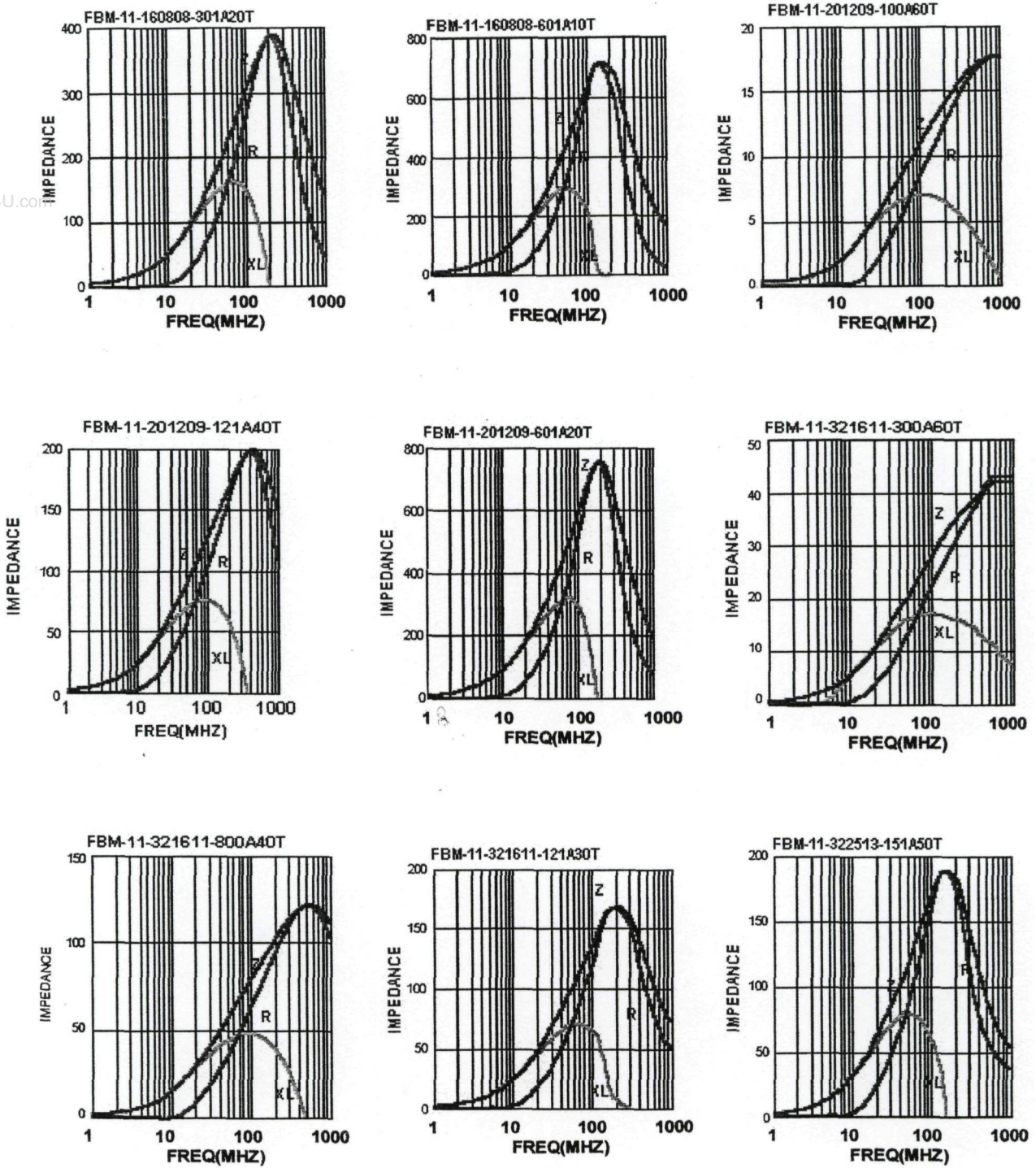
# FBM-A:HIGH CURRENT TYPE

| ITEM                 | Impedance Ohm | Test Frequency (MHz) | DC Resistance Ohm max | Rated Current (mA) max |
|----------------------|---------------|----------------------|-----------------------|------------------------|
| FBM-11-160808-300A10 | 30±25%        | 100                  | 0.05                  | 1000                   |
| FBM-11-160808-600A30 | 60±25%        | 100                  | 0.04                  | 3000                   |
| FBM-11-160808-121A20 | 120±25%       | 100                  | 0.1                   | 2000                   |
| FBM-11-160808-301A20 | 300±25%       | 100                  | 0.1                   | 2000                   |
| FBM-11-160808-601A10 | 600±25%       | 100                  | 0.2                   | 1000                   |
| FBM-11-201209-100A60 | 10±25%        | 100                  | 0.01                  | 6000                   |
| FBM-11-201209-121A40 | 120±25%       | 100                  | 0.035                 | 4000                   |
| FBM-11-201209-601A20 | 600±25%       | 100                  | 0.10                  | 2000                   |
| FBM-11-321611-300A60 | 30±25%        | 100                  | 0.01                  | 6000                   |
| FBM-11-321611-800A40 | 80±25%        | 100                  | 0.035                 | 4000                   |
| FBM-11-322513-800A30 | 150±25%       | 100                  | 0.04                  | 3000                   |
| FBM-11-322513-151A50 | 150±25%       | 100                  | 0.02                  | 5000                   |
| FBM-11-322513-201A40 | 200±25%       | 100                  | 0.035                 | 4000                   |
| FBM-11-322513-301A30 | 300±25%       | 100                  | 0.04                  | 3000                   |
| FBM-11-451616-600A60 | 60±25%        | 100                  | 0.01                  | 6000                   |
| FBM-11-451616-800A40 | 80±25%        | 100                  | 0.03                  | 4000                   |
| FBM-11-451616-900A60 | 90±25%        | 100                  | 0.01                  | 6000                   |
| FBM-11-453215-121A15 | 120±25%       | 100                  | 0.05                  | 1500                   |
| FBM-11-453215-121A40 | 120±25%       | 100                  | 0.03                  | 4000                   |
| FBM-11-453215-151A50 | 150±25%       | 1000                 | 0.02                  | 5000                   |

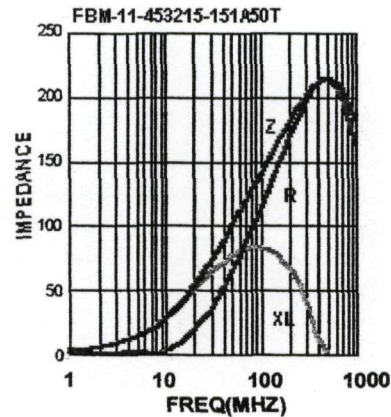
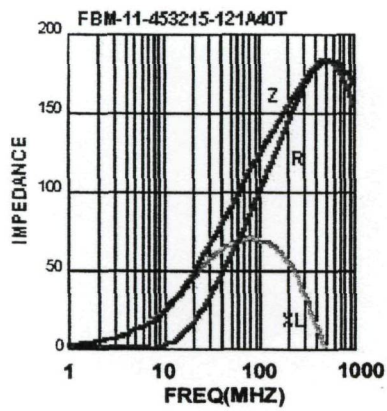
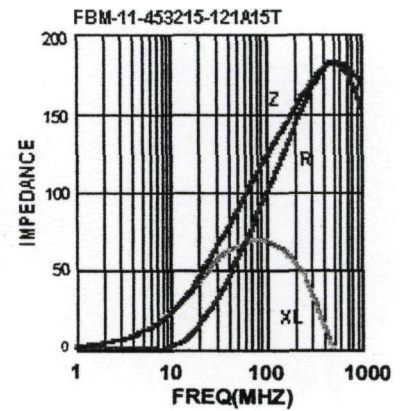
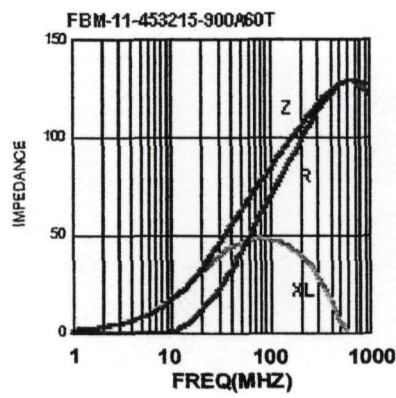
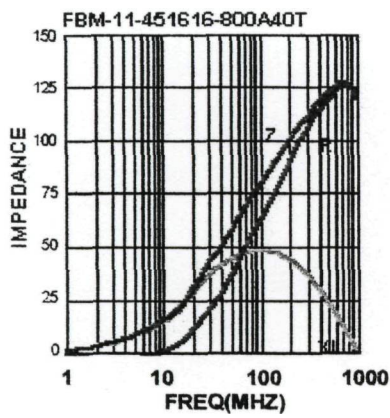
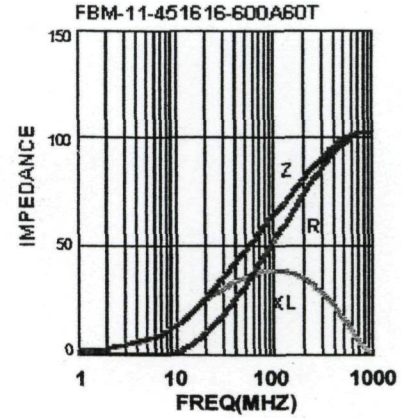
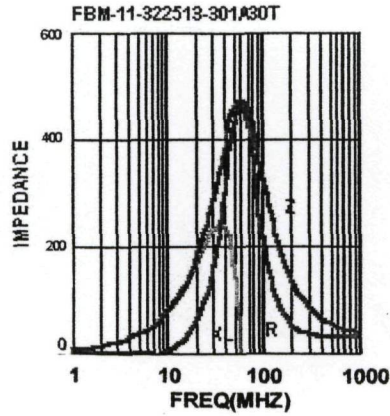
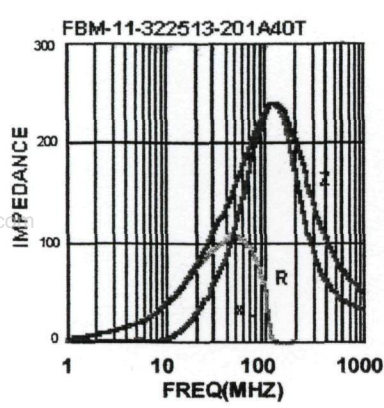
## TYPICAL ELECTRICAL CHARACTERISTIC CURVE



TYPICAL ELECTRICAL CHARACTERISTIC CURVE



TYPICAL ELECTRICAL CHARACTERISTIC CURVE



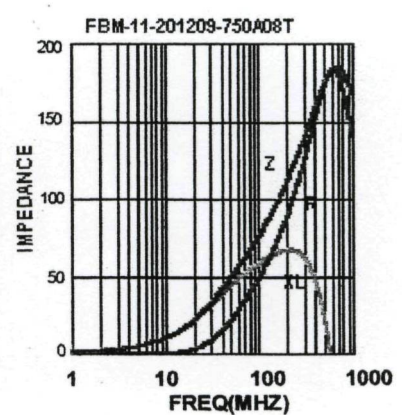
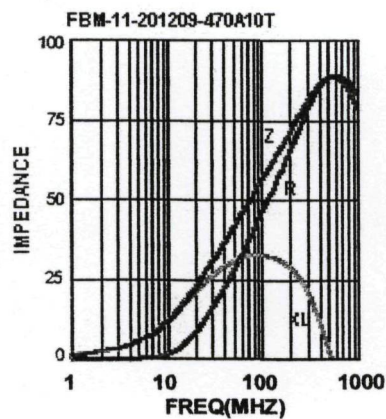
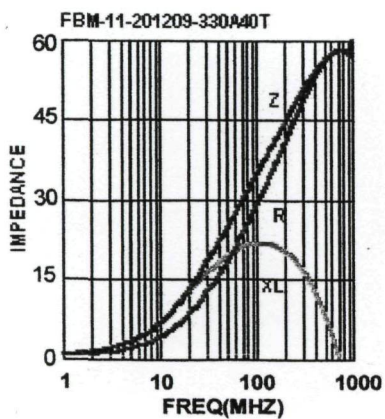
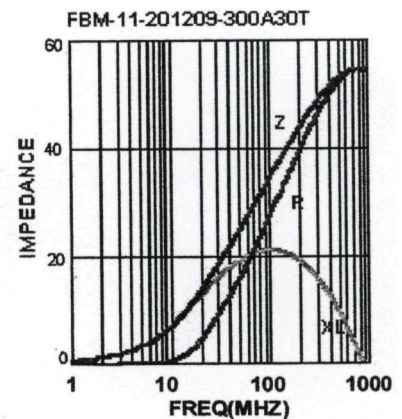
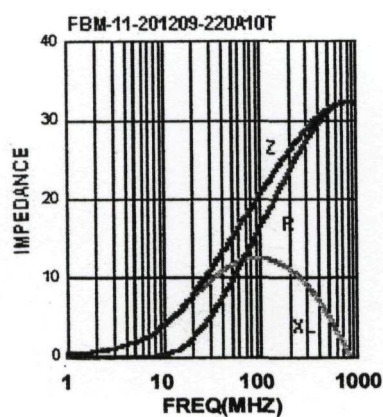
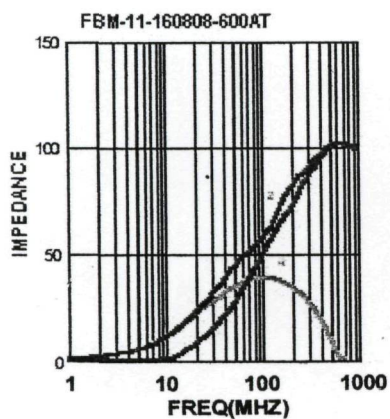


# MULTILAYER CHIP BEADS

# FBM-A..T:HIGH CURRENT TYPE

| ITEM                  | Impedance<br>Ohm | Test Frequency<br>(MHz) | DC Resistance<br>Ohmmax | Rated Current<br>(mA) max |
|-----------------------|------------------|-------------------------|-------------------------|---------------------------|
| FBM-11-160808-600A05T | 60±25%           | 100                     | 0.10                    | 500                       |
| FBM-11-201209-220A10T | 22±25%           | 100                     | 0.05                    | 1000                      |
| FBM-11-201209-300A30T | 30±25%           | 100                     | 0.015                   | 3000                      |
| FBM-11-201209-330A40T | 33±25%           | 100                     | 0.008                   | 4000                      |
| FBM-11-201209-470A10T | 47±25%           | 100                     | 0.05                    | 1000                      |
| FBM-11-201209-750A08T | 75±25%           | 100                     | 0.1                     | 800                       |
| FBM-11-201209-121A50T | 120±25%          | 100                     | 0.02                    | 5000                      |
| FBM-11-321611-480A60T | 48±25%           | 100                     | 0.005                   | 6000                      |
| FBM-11-321611-500A30T | 50±25%           | 100                     | 0.025                   | 3000                      |
| FBM-11-321611-800A40T | 80±25%           | 100                     | 0.01                    | 4000                      |
| FBM-11-321611-121A30T | 120±25%          | 100                     | 0.025                   | 3000                      |

## TYPICAL ELECTRICAL CHARACTERISTIC CURVE



## TYPICAL ELECTRICAL CHARACTERISTIC CURVE

