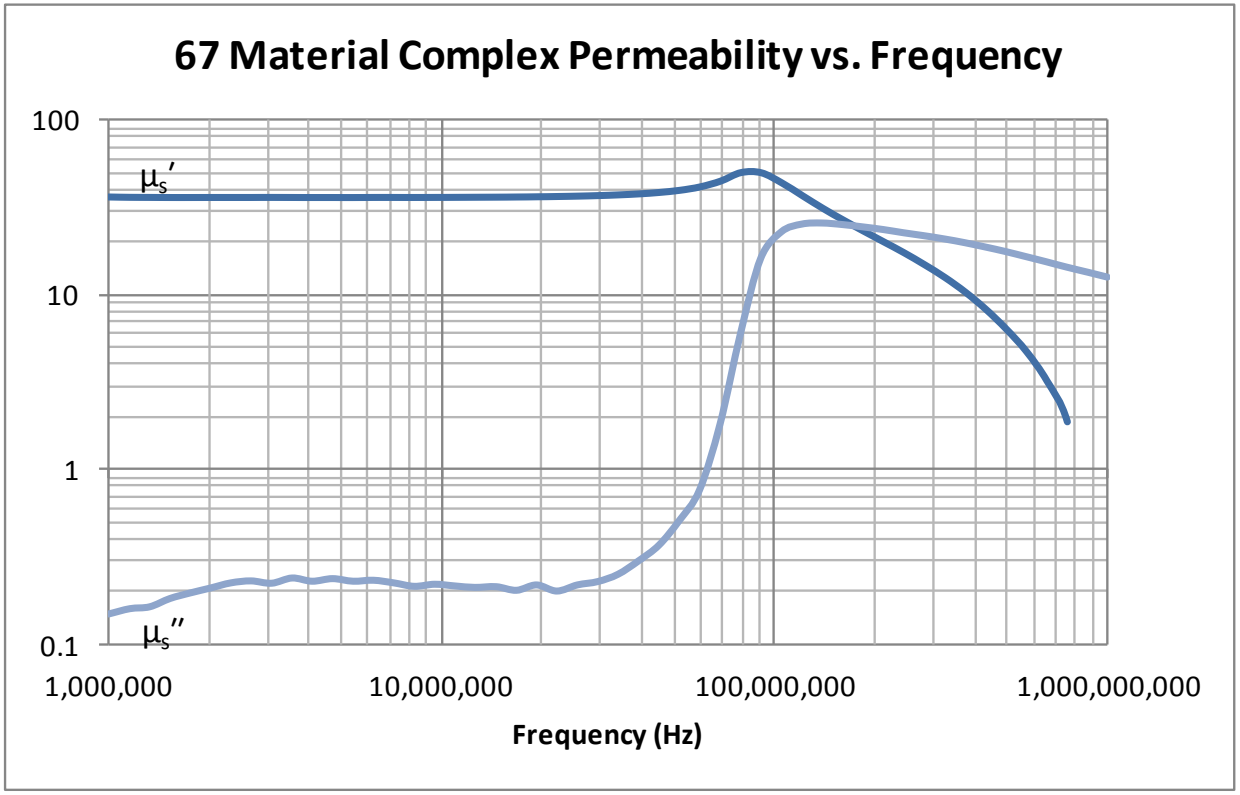
Fair-Rite Products Corp.

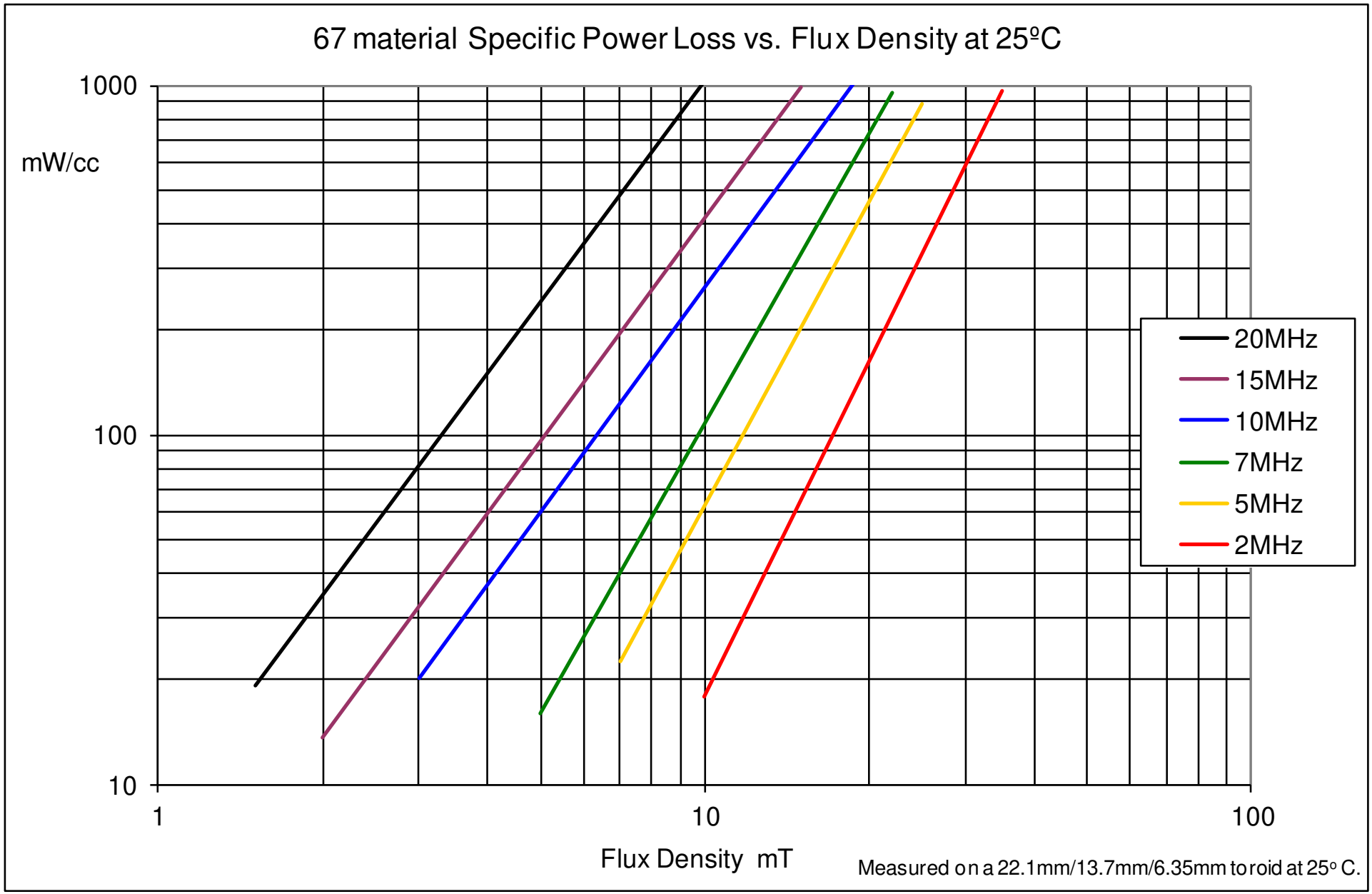
Your Signal Solution®

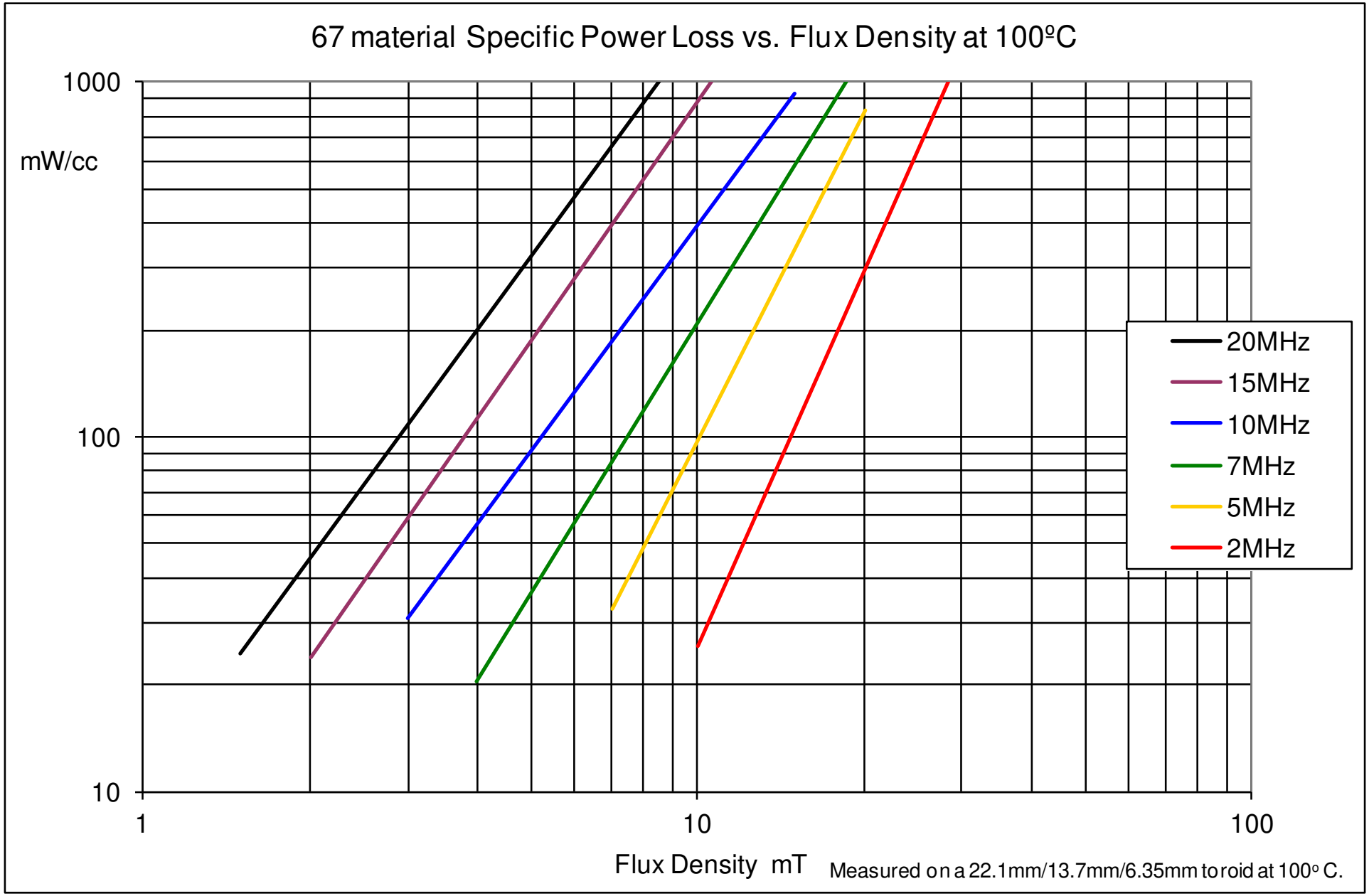
# HF Mini Power Kit

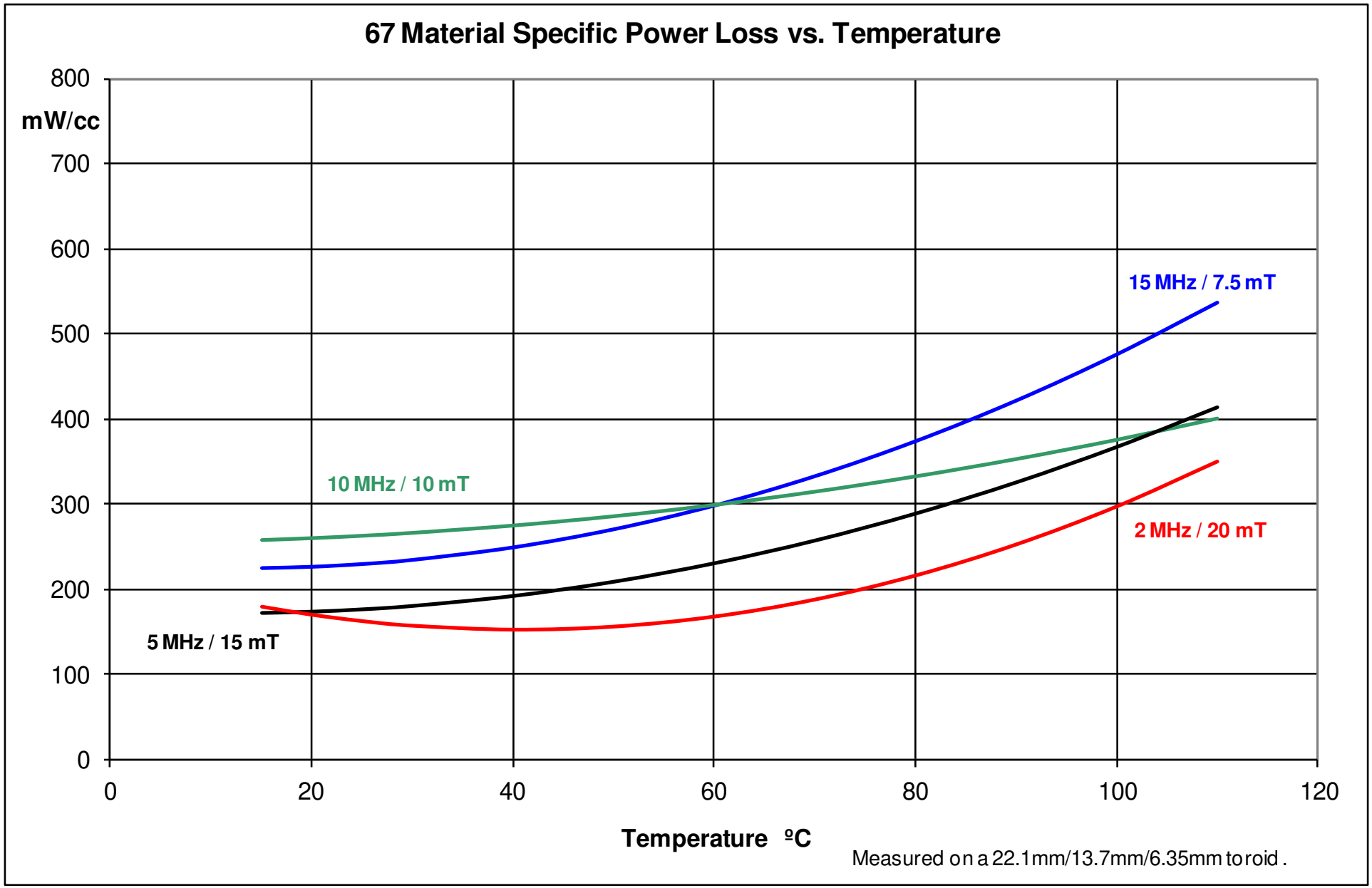
*Featuring 67 Material*

Fair-Rite's 67 is a high-frequency NiZn ferrite material with an initial permeability of 40.




67 material Specific Power Loss vs. Flux Density at 25ºC
1000
mW/cc
100
10
1
10
100
Flux Density mT
20MHz
15MHz
10MHz
7MHz
5MHz
2MHz
Measured on a 22.1mm/13.7mm/6.35mm toroid at 25° C.


67 material Specific Power Loss vs. Flux Density at 100ºC
1000
mW/cc
100
10
1
10
100
Flux Density mT
20MHz
15MHz
10MHz
7MHz
5MHz
2MHz
Measured on a 22.1mm/13.7mm/6.35mm toroid at 100º C.


67 Material Specific Power Loss vs. Temperature
800
mW/cc
700
600
500
400
300
200
100
0
0
20
40
60
80
100
120
Temperature ºC
15 MHz / 7.5 mT
10 MHz / 10 mT
2 MHz / 20 mT
5 MHz / 15 mT
Measured on a 22.1mm/13.7mm/6.35mm toroid .

**values are nominal unless otherwise indicated**

| refer to figure 2 and 3 for EQ shapes | FR PN | generic size | mm A | mm B | mm C | mm D | mm E | mm F | mm G |
|---|---|---|---|---|---|---|---|---|---|
| see fig. 2 | 9567130302 | **EQ13/8.7/2.9** | 12.8 | 2.85 | 8.7 | 1.75 | 11.2 | 5 | 8.75 min |
| see fig. 3 | 9367053002 | **I13/8.7/1.1** | 12.8 | 1.1 | 8.7 | | | | |
| see fig. 2 | 9567200602 | **EQ20/14/6.4** | 20 | 6.35 | 14 | 4.1 | 18 | 8.8 | 12.5 min |
| see fig. 3 | 9367054002 | **I20/14/2.3** | 20 | 2.3 | 14 | | | | |
| see fig. 2 | 9567250802 | **EQ25/18/8** | 25 | 8 | 18 | 5.15 | 22 | 11 | 14.5 min |
| see fig. 2 | 9567250602 | **EQ25/18/5.6** | 25 | 5.6 | 18 | 3.15 | 22 | 11 | 14.5 min |
| see fig. 3 | 9367055002 | **I25/18/2.3** | 25 | 2.3 | 18 | | | | |

| refer to figure 1 for toroids | FR PN | generic size | mm A | mm B | mm C | 1/cm C1 (Σ l/A) | cm le | $cm^2$ Ae | $cm^3$ Ve | nominal $nH/T^2$ $A_L$ |
|---|---|---|---|---|---|---|---|---|---|---|
| see fig. 1 | 5967000201 | **T9.5/4.8/3.2** | 9.5 | 4.75 | 3.2 | 28.6 | 2.07 | 0.072 | 0.15 | 18 |
| see fig. 1 | 5967001801 | **T22/14/6.4** | 22.1 | 13.7 | 6.35 | 20.7 | 5.4 | 0.262 | 1.42 | 24 |
| see fig. 1 | 5967001001 | **T29/19/7.5** | 29 | 19 | 7.5 | 19.8 | 7.3 | 0.37 | 2.7 | 25 |

| FR PN | FR PN | generic size | mm overall height | 1/cm C1 (Σ l/A) | cm le | $cm^2$ Ae | $cm^3$ Ve | minimum $nH/T^2$ AL |
|---|---|---|---|---|---|---|---|---|
| 9567130302 | 9567130302 | **EEQ13/6** | 5.7 | 8.56 | 1.74 | 0.20 | 0.35 | 45 |
| 9567130302 | 9367053002 | **EQI 13/4** | 3.95 | 6.97 | 1.39 | 0.20 | 0.28 | 56 |
| 9567200602 | 9567200602 | **EEQ20/13** | 12.7 | 5.53 | 3.33 | 0.60 | 2.01 | 71 |
| 9567200602 | 9367054002 | **EQI 20/9** | 8.65 | 4.12 | 2.52 | 0.61 | 1.54 | 95 |
| 9567250802 | 9567250802 | **EEQ25/16** | 16 | 4.14 | 4.15 | 1.00 | 4.17 | 94 |
| 9567250802 | 9367055002 | **EQI 25/10** | 10.3 | 3.22 | 3.08 | 0.96 | 2.94 | 122 |
| 9567250602 | 9567250602 | **EEQ25/11** | 11.2 | 3.52 | 3.28 | 0.93 | 3.06 | 110 |
| 9567250602 | 9367055002 | **EQI 25/8** | 7.9 | 2.93 | 2.64 | 0.90 | 2.39 | 132 |
| 9567250802 | 9567250602 | **EEQ25/14** | 13.6 | 3.82 | 3.72 | 0.97 | 3.62 | 102 |

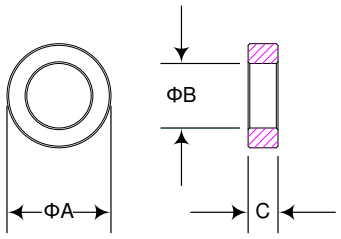



Figure 1

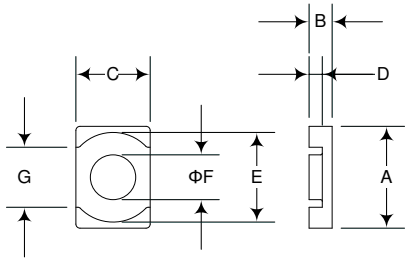



Figure 2

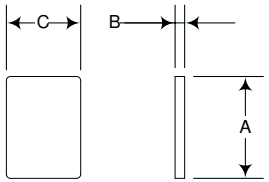



Figure 3