

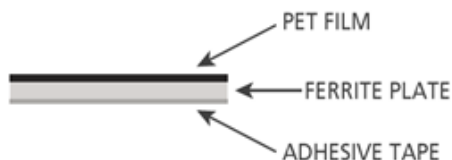
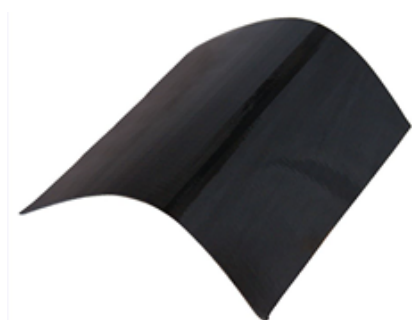


# 38M2020AA1212(0000000000)



Part Number: 38M2020AA1212

|                   |              |
|-------------------|--------------|
| Material Grade    | M2           |
| Sheet Size        | 120 x 120 mm |
| Ferrite Thickness | 0.2 mm       |
| Total Thickness   | 0.23 mm      |



Weight: (g)

## Chart Legend

| Dim | mm | mm tol | nominal inch | inch misc. |
|-----|----|--------|--------------|------------|
| A   |    |        |              |            |

|               | Typical Shielding Effectiveness (dB): Test Method as noted → **, *** |        |           |            |           |           |
|---------------|----------------------------------------------------------------------|--------|-----------|------------|-----------|-----------|
| PARTNUMBER    | Material                                                             | 1MHz** | 6.78MHz** | 13.56MHz** | 100MHz*** | 300MHz*** |
| 38M2020AA1212 | M2                                                                   | 4.2    | 4.2       | 4.2        | 5         | 3.3       |

\*\* Shielding Effectiveness (SE) at 1 -50MHz :  
measured using IEC 6233-2 Rde Inter Decoupling Ratio method (loop to loop distance= 6mm).

This method is meaningful as a measure of decoupling effectiveness circuit to circuit or to metal surfaces (plane to plane).

\*\*\* Shielding Effectiveness (SE) at 100MHz+ : measured using IEC 6233-2 Rrs Radiation Suppression Ratio method (50-ohm Microstripline).

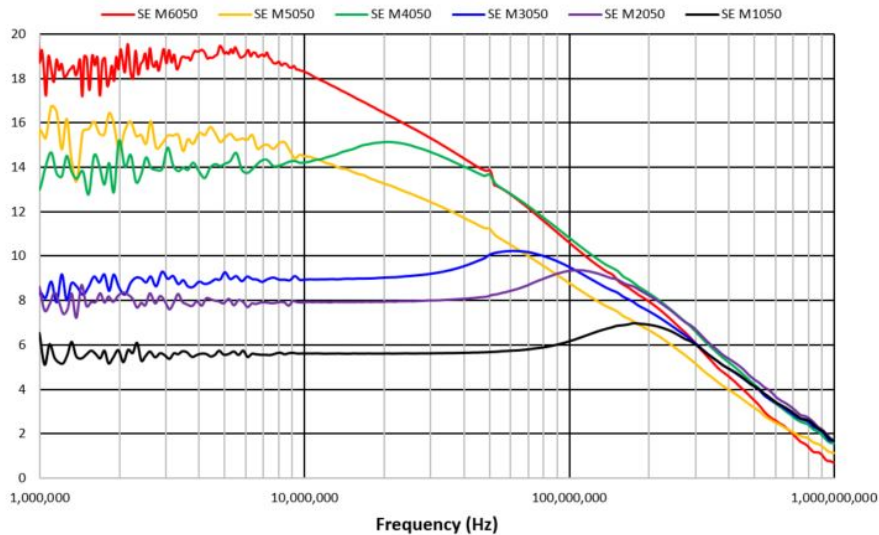
This method is meaningful as a measure of shielding

for radiated emissions of  
“antennas”.

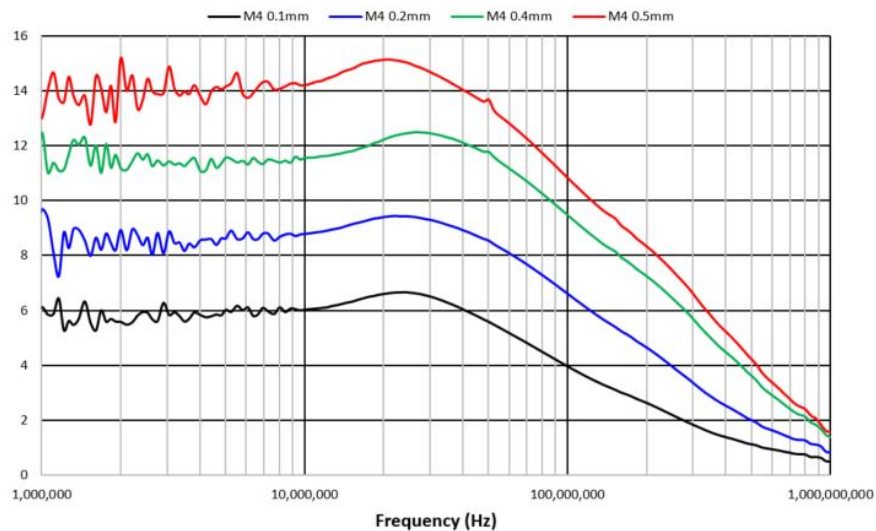
### Equipment Used:

E5072A Vector Network Analyzer (30kHz – 8.5 GHz)  
HP4291A RF Impedance/Material Analyzer (1MHz-3GHz)  
E4991A with 16453A Dielectric Test Fixture  
HP4284A for Temperature testing  
25mm diameter slotted loop antennas  
50-ohm Micro-Stripline Test Fixture

**dB** IEC 62333-2 (Rrs at 10mm) Comparison of Flex Materials: 60x60x0.5 mm size



**dB** IEC 62333-2 (Rrs at 10mm) Comparison of Thickness : M4 material



Fair-Rite Products Corp. • One Commercial Row, Wallkill, New York 12589-0288  
888-324-7748 • 845-895-2055 • Fax: 845-895-2629 • [ferrites@fair-rite.com](mailto:ferrites@fair-rite.com) • [www.fair-rite.com](http://www.fair-rite.com)