



## FEATURES



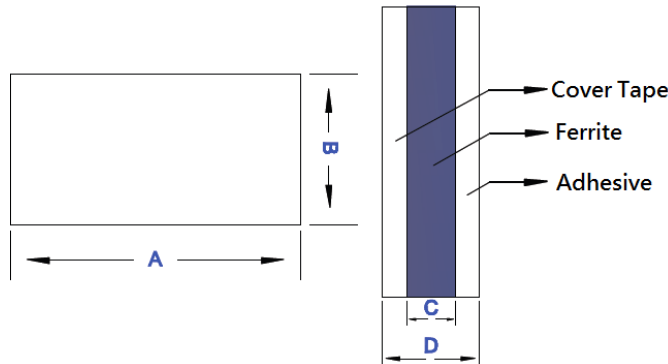
- Flexible ferrite sheets for 13.56 MHz NFC, RFID application & wireless charging application
- Made by thin, high permeability sintered ferrite with PET film and adhesive tape
- Standard ferrite layer thickness 0.05mm, 0.1mm and 0.2mm
- Custom size or thickness available upon request
- Operating temperature -40°C to 85°C
- RoHS compliant

## APPLICATIONS

- NFC antenna for mobile phones
- NFC antenna for automobile
- NFC or RFID antenna for security & access control system
- Wireless charging for mobile phones and battery powered handheld electronic devices
- NFC or RFID read/write devices, improved read distance
- EMI suppression for IC or IC circuitry

## SHAPES AND DIMENSIONS

| PART NUMBER   | A mm (inches) | B mm (inches) | C mm (inches) | D mm MAX (inches) |
|---------------|---------------|---------------|---------------|-------------------|
| MULL5040-000  | 50 (1.969)    | 40 (1.575)    | 0.20 (0.008)  | 0.35 (0.014)      |
| MULL5040-200  | 50 (1.969)    | 40 (1.575)    | 0.10 (0.004)  | 0.20 (0.008)      |
| MULL6060-300  | 60 (2.362)    | 60 (2.362)    | 0.05 (0.002)  | 0.09 (0.004)      |
| MULL12060-000 | 120 (4.724)   | 60 (2.362)    | 0.20 (0.008)  | 0.35 (0.014)      |
| MULL12060-200 | 120 (4.724)   | 60 (2.362)    | 0.10 (0.004)  | 0.20 (0.008)      |



## PART NUMBER SYSTEM EXAMPLE

|               |                |   |   |
|---------------|----------------|---|---|
| MULL          | 12060          | - | 000   |
| Material Code | Part Size Code |   | Thickness Code<br>Catalog or Custom Information |

USA: +1.423.308.1690  
Europe: +42.0.4885.7511.1  
Asia: +86.757.2563.8860

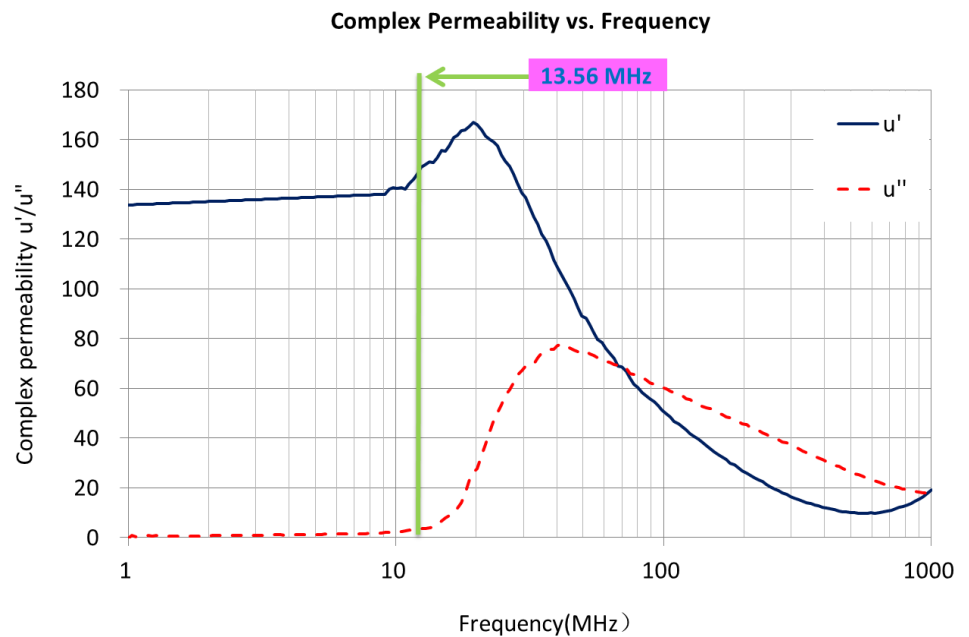
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## MATERIAL SPECIFICATIONS

| Property  | MULL Series   |
|---|---------------|
| Real Permeability, $\mu'$ @13.56MHz, 0.1V       | 150 $\pm$ 20% |
| Imaginary Permeability, $\mu''$ @13.56MHz, 0.1V | 5 max         |
| Operating Temperature, °C                       | -40°C ~ +85°C |

## TYPICAL ELECTRICAL CHARACTERISTICS



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