

Flexible Ferrite Sheets For NFC & Wireless Charging

MHLL Series



FEATURES PROHS





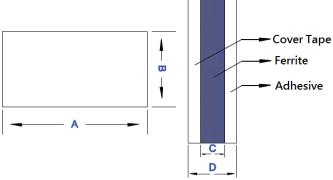
- Flexible ferrite sheets for 13.56 MHz NFC, RFID application & wireless charging application
- Made by thin, high permeability sintered ferrite with PET film and adhesive tape
- Standard ferrite layer thickness 0.05mm, 0.1mm and 0.2mm
- Custom size or thickness available upon request
- Operating temperature -40 $^{\circ}$ C to 85 $^{\circ}$ 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 | A mm | B mm | C mm | D mm MAX |
|---------------|----------|----------|----------|----------|
| NUMBER | (inches) | (inches) | (inches) | (inches) |
| MHLL5040-000 | 50 | 40 | 0.20 | 0.35 |
| | (1.969) | (1.575) | (0.008) | (0.014) |
| MHLL5040-200 | 50 | 40 | 0.10 | 0.20 |
| WITHLOU40-200 | (1.969) | (1.575) | (0.004) | (0.008) |
| MHLL6060-300 | 60 | 60 | 0.05 | 0.09 |
| MULTOOO0-200 | (2.362) | (2.362) | (0.002) | (0.004) |
| MUU 12060 000 | 120 | 60 | 0.20 | 0.35 |
| MHLL12060-000 | (4.724) | (2.362) | (0.008) | (0.014) |
| MUU 12060 200 | 120 | 60 | 0.10 | 0.20 |
| MHLL12060-200 | (4.724) | (2.362) | (0.004) | (0.008) |



PART NUMBER SYSTEM EXAMPLE

| MHLL | 12060 | - 000 | |
|---------------|----------------|-------------------------------|--|
| Material Code | Part Size Code | Thickness Code | |
| | | Catalog or Custom Information | |

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

MCP-DS-MHLL SHEET REV1.2 0814



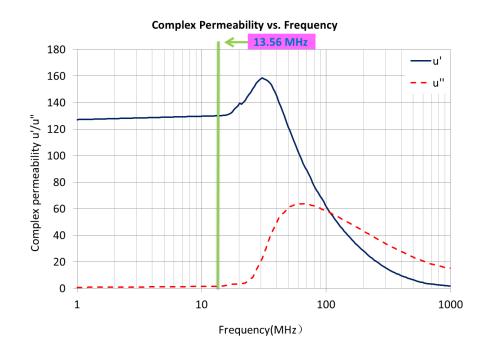
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MATERIAL SPECIFICATIONS

| Property | MHLL Series | |
|---|---------------|--|
| Real Permeability, μ' @13.56MHz, 0.1V | 130 ± 20% | |
| Imaginary Permeability, μ"@13.56MHz, 0.1V | 5 max | |
| Operating Temperature, °C | -40°C ~ +85°C | |

TYPICAL ELECTRICAL CHARACTERISTICS



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

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