

Flexible Ferrite Sheets For NFC & Wireless Charging MULL Series



FEATURES



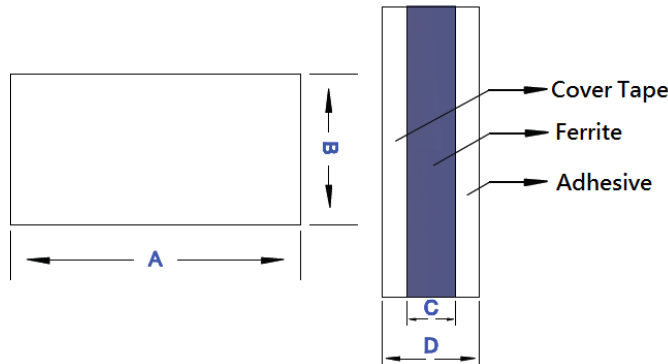
- Flexible ferrite sheets for 13.56 MHz NFC, RFID application & wireless charging application
- Made by thin, high permeability sintered ferrite with PET film and adhesive tape
- Standard ferrite layer thickness 0.05mm, 0.1mm and 0.2mm
- Custom size or thickness available upon request
- Operating temperature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

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

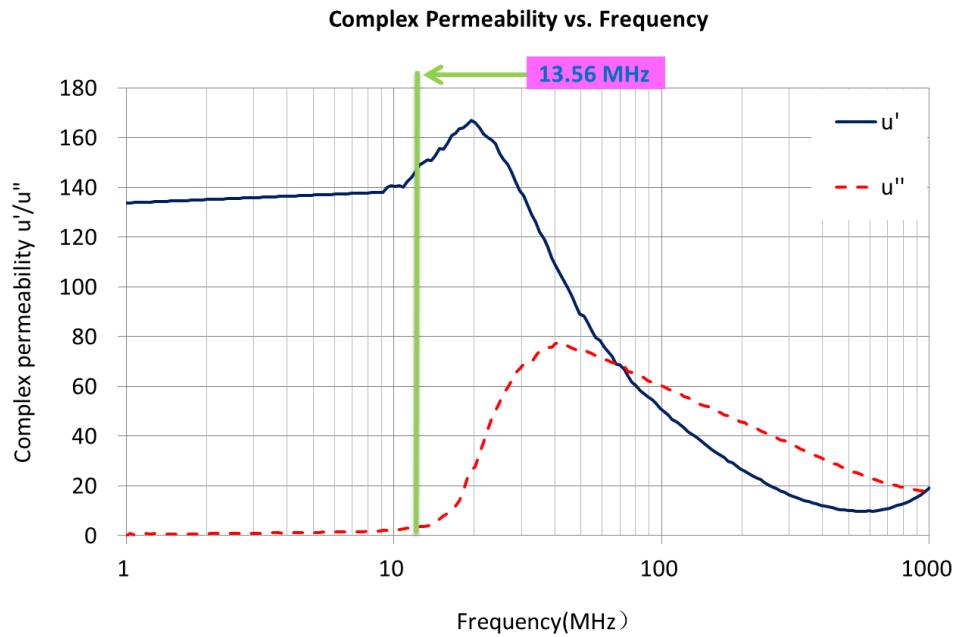
MCP-DS-MULL SHEET 0814

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user. Laird Technologies makes no warranties as to the fitness, merchantability, suitability or non-infringement of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2014 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.

MATERIAL SPECIFICATIONS

Property	MULL Series
Real Permeability, μ' @13.56MHz, 0.1V	150 \pm 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

MCP-DS-MULL SHEET 0814

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user. Laird Technologies makes no warranties as to the fitness, merchantability, suitability or non-infringement of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2014 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.