

Flexible Ferrite Sheets For NFC & Wireless Charging MHLL Series



FEATURES VROHS ®

- 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 $^\circ\!\mathrm{C}$ to 85 $^\circ\!\mathrm{C}$

SHAPES AND DIMENSIONS

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

PART	A mm	B mm	C mm	D mm MAX					
NUMBER	(inches)	(inches)	(inches)	(inches)					
MHLL5040-000	50	40	0.20	0.35					
WITLL3040-000	(1.969)	(1.575)	(0.008)	(0.014)					
MHLL5040-200	50	40	0.10	0.20					
	(1.969)	(1.575)	(0.004)	(0.008)					
MHLL6060-300	60	60	0.05	0.09					
	(2.362)	(2.362)	(0.002)	(0.004)					
MHLL12060-000	120	60	0.20	0.35					
	(4.724)	(2.362)	(0.008)	(0.014)					
MHLL12060-200	120	60	0.10	0.20					
	(4.724)	(2.362)	(0.004)	(0.008)					



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

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 warrantize as to the fitness, merchantability, suitability or non-infringement of any Laird Technologies materials or products for any specific or general uses. Laird Technologies materials or technologies. The Laird Technologies shall not be liable for incidental or consequential damages of any Kind. All Laird Technologies incursant to the Laird Technologies, the Laird Technologies Laird, and the marks are trademarks or registered trademarks of Laird Technologies, prove 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.



Flexible Ferrite Sheets For NFC & Wireless Charging MHLL Series

MATERIAL SPECIFICATIONS

Property	MHLL Series
Real Permeability, μ' @13.56MHz, 0.1V	130 <u>+</u> 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-MHLL SHEET REV1.2 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, mechantability, suitability or non- infringement of any Laird Technologies materials or products for any specific or general uses. Laird Technologies in the Laird for incidental or consequential damages of any kind. All Laird Technologies shall use Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies shall use the little shall be used to the liable for incidental or consequential damages of any kind. All Laird Technologies shall use Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies shall be used to the line of a constraint on the liable for incidental or consequential damages of any kind. All Laird Technologies shall be used to the same shall be the product or service names may be the product to the same shall be used to the same shall be the same shall be used to the same sh