

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Flexible Ferrite Sheets For NFC & Wireless Charging

MSLL Series



FEATURES Rohs ®





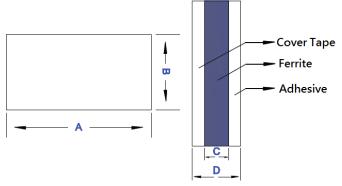
- Flexible ferrite sheets for 13.56 MHz NFC, RFID application & wireless charging application
- Made by thin, high permeability sintered ferrite with PET film and adhesive tape
- Standard ferrite layer thickness 0.05mm, 0.1mm and 0.2mm
- Custom size or thickness available upon request
- Operating temperature -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)
MSLL5040-000	50	40	0.20	0.35
	(1.969)	(1.575)	(0.008)	(0.014)
MSLL5040-200	50	40	0.10	0.20
	(1.969)	(1.575)	(0.004)	(0.008)
MSLL6060-300	60	60	0.05	0.09
	(2.362)	(2.362)	(0.002)	(0.004)
MSLL12060-000	120	60	0.20	0.35
	(4.724)	(2.362)	(0.008)	(0.014)
MSLL12060-200	120	60	0.10	0.20
	(4.724)	(2.362)	(0.004)	(0.008)



PART NUMBER SYSTEM EXAMPLE

000 **MSLL** 12060 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



Flexible Ferrite Sheets For NFC & Wireless Charging

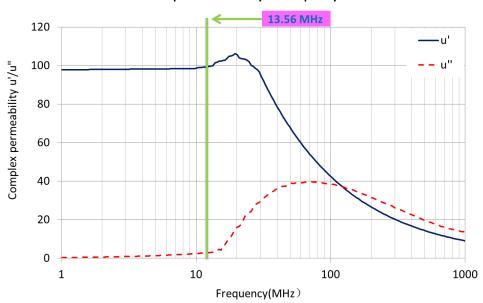
MSLL Series

MATERIAL SPECIFICATIONS

Property	MSLL Series	
Real Permeability, μ' @13.56MHz, 0.1V	100 ± 20%	
Imaginary Permeability, μ"@13.56MHz, 0.1V	5 max	
Operating Temperature, °C	-40°C ∼ +85°C	

TYPICAL ELECTRICAL CHARACTERISTICS

Complex Permeability vs. Frequency



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