

Flexible Ferrite Sheets

Fair-Rite's Flexible Ferrite Sheets provide the benefits of soft-magnetic materials, while freeing you from their mechanical constraints!

These materials are composed of NiZn to provide high-volume resistivity and high insertion-loss over a broad frequency range.

Available in six material grades and four standard thicknesses as thin as 0.13mm, these RoHS compliant sheets come "scored" in a 2mm x 2mm rectangular grid. The recommended operating temperature is -40° to +85°C and the typical thermal conductivity is 6 watt / m-°C. Storage Temperature : -40° to +85°C, suggested shelf life is one year; however shelf life may be extended by storage at 22 – 25°C and 45-55% RH avoiding light and dust.

With its PET backing, it can bend without impacting performance – making it easy to conform and adhere to any surface for improved functionality.

Used primarily for suppressive applications, the amount of noise that is absorbed at higher frequencies is proportional to the resistive component of the permeability (μ'') and the thickness of the ferrite. The operational frequencies can range from below 1 MHz into the GHz range, making it ideal for a multitude of applications.

Key Benefits:

- Can be quickly implemented into custom designs
- Easier to handle in production verse rigid plates
- High surface resistivity
- Can be cut with a knife, razor or scissors Die cutting is available
- Easy to apply – peel and stick

Applications:

- Wireless Power Charging Station
- RFID and NFC antennas
- PCB and IC components
- Switch-mode power supplies

Fair-Rite PN	Material Permeability	Ferrite Thickness	PET Thickness	Tape Thickness	Sheet Size	Total Thickness
38M1010AA1212	20	0.1 mm	0.01 mm	0.02 mm	120 x 120 mm	0.13 mm
38M1020AA1212	20	0.2 mm	0.01 mm	0.02 mm	120 x 120 mm	0.23 mm
38M1040AA0606	20	0.4 mm	0.01 mm	0.02 mm	60 x 60 mm	0.43 mm
38M1050AA0606	20	0.5 mm	0.01 mm	0.02 mm	60 x 60 mm	0.53 mm
38M2010AA1212	45	0.1 mm	0.01 mm	0.02 mm	120 x 120 mm	0.13 mm
38M2020AA1212	45	0.2 mm	0.01 mm	0.02 mm	120 x 120 mm	0.23 mm
38M2040AA0606	45	0.4 mm	0.01 mm	0.02 mm	60 x 60 mm	0.43 mm
38M2050AA0606	45	0.5 mm	0.01 mm	0.02 mm	60 x 60 mm	0.53 mm
38M3010AA1212	60	0.1 mm	0.01 mm	0.02 mm	120 x 120 mm	0.13 mm

38M3020AA1212	60	0.2 mm	0.01 mm	0.02 mm	120 x 120 mm	0.23 mm
38M3040AA0606	60	0.4 mm	0.01 mm	0.02 mm	60 x 60 mm	0.43 mm
38M3050AA0606	60	0.5 mm	0.01 mm	0.02 mm	60 x 60 mm	0.53 mm
38M4010AA1212	120	0.1 mm	0.01 mm	0.02 mm	120 x 120 mm	0.13 mm
38M4020AA1212	120	0.2 mm	0.01 mm	0.02 mm	120 x 120 mm	0.23 mm
38M4040AA0606	120	0.4 mm	0.01 mm	0.02 mm	60 x 60 mm	0.43 mm
38M4050AA0606	120	0.5 mm	0.01 mm	0.02 mm	60 x 60 mm	0.53 mm
38M5010AA1212	140	0.1 mm	0.01 mm	0.02 mm	120 x 120 mm	0.13 mm
38M5020AA1212	140	0.2 mm	0.01 mm	0.02 mm	120 x 120 mm	0.23 mm
38M5040AA0606	140	0.4 mm	0.01 mm	0.02 mm	60 x 60 mm	0.43 mm

38M5050AA0606	140	0.5 mm	0.01 mm	0.02 mm	60 x 60 mm	0.53 mm
38M6010AA1212	220	0.1 mm	0.01 mm	0.02 mm	120 x 120 mm	0.13 mm
38M6020AA1212	220	0.2 mm	0.01 mm	0.02 mm	120 x 120 mm	0.23 mm
38M6040AA0606	220	0.4 mm	0.01 mm	0.02 mm	60 x 60 mm	0.43 mm
38M6050AA0606	220	0.5 mm	0.01 mm	0.02 mm	60 x 60 mm	0.53 mm

