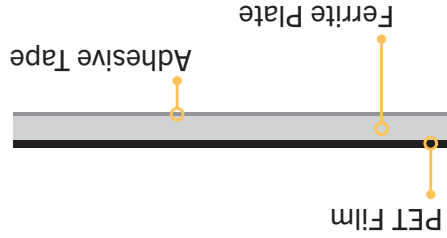


- ## KEY BENEFITS
- Can be quickly implemented into custom designs
  - Easier to handle in production versus rigid plates
  - High surface resistivity
  - Custom shapes available
  - Easy to apply - peel and stick
- ## APPLICATIONS
- Suppression of radiated emissions
  - Wireless Power Charging Station
  - RFID and NFC antennas
  - PCB and IC components
  - Switch-mode power supplies



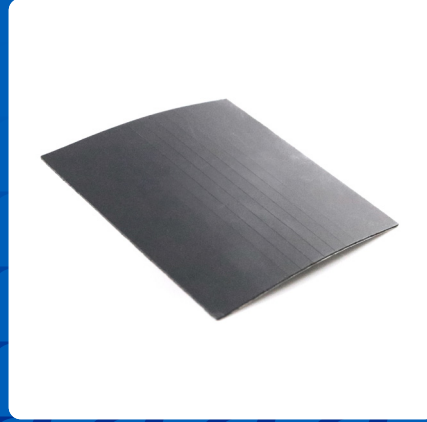
Fair-Rite® Flexible Ferrite Sheets provide the benefits of soft-magnetic materials, while freeing you from their mechanical constraints! With its PET backing, it can bend without impacting performance — making it easy to conform and adhere to any surface for improved functionality.

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

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

These RoHS compliant sheets come “scored” in a 2mm x 2mm rectangular grid. The recommended operating temperature is -40° to +85° C. The constraint is the PET film and adhesive tape layers.

# FAIR-RITE®



## 0.5 MM FLEXIBLE FERRITE KIT

PART NUMBER 0199000060

Contains 6 Flexible Ferrite Sheets of different materials with varying permeabilities. The recommended operating temperature is -40° to +85° C and the typical thermal conductivity is 6 watt / m<sup>2</sup>·C.

# FAIR-RITE®

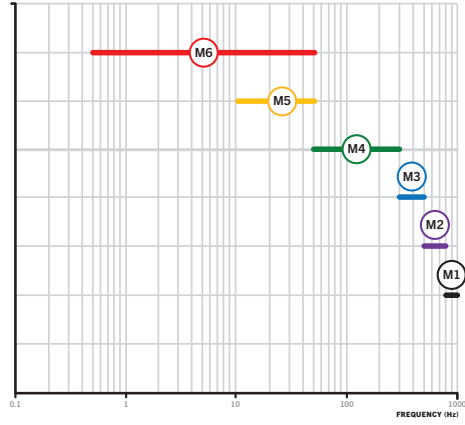
PHONE (888) FAIR RITE / (845) 895-2055

EMAIL [Ferrites@fair-rite.com](mailto:Ferrites@fair-rite.com)

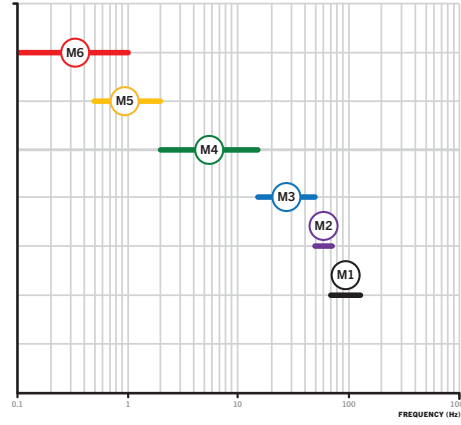
FAIR-RITE.COM



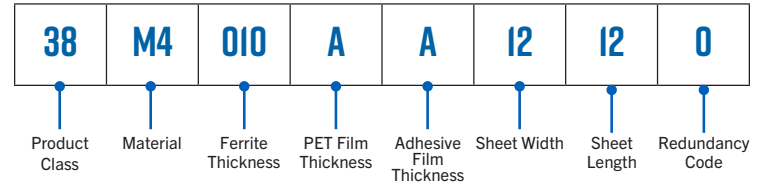
**RECOMMENDED FREQUENCY RANGE FOR SUPPRESSION APPLICATIONS**  
Fair-Rite Flexible Ferrite Sheets



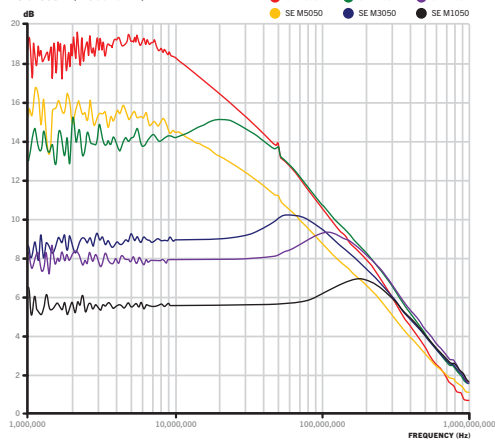
**RECOMMENDED FREQUENCY RANGE FOR INDUCTIVE APPLICATIONS**  
Fair-Rite Flexible Ferrite Sheets



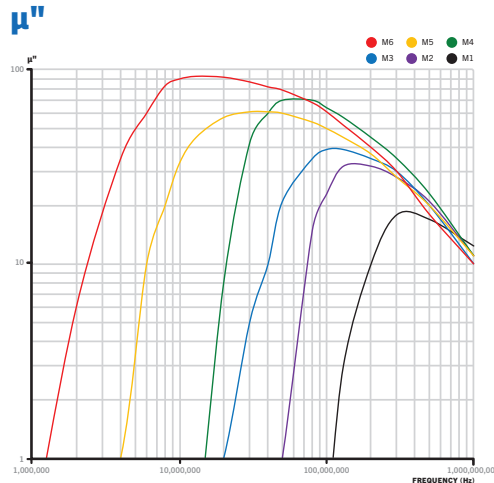
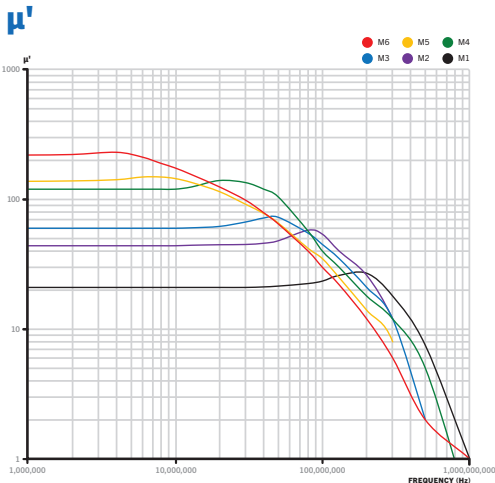
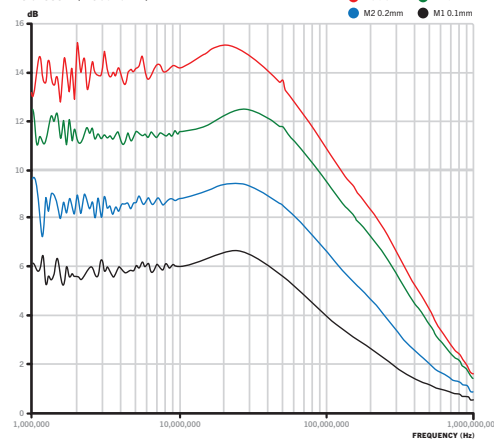
**PART NUMBERING CODES**



**COMPARISON OF FLEX MATERIALS: 60X60X0.5MM SIZE**  
IEC 62333-2 (Rrs at 10mm)



**COMPARISON OF THICKNESS: 00 MATERIAL (M4)**  
IEC 62333-2 (Rrs at 10mm)



PART NUMBER	MATERIAL	SHEET SIZE*	FERRITE THICKNESS	TOTAL THICKNESS	μ' AT 1MHz	TYPICAL SHIELDING EFFECTIVENESS dB***					FEATURE
						1MHz	6.78MHz	13.56MHz	100MHz	300MHz	
38M1010AA1212	M1	120 x 120 mm	0.1 mm	0.13 mm	20	1.6	1.6	1.6	1.7	1.5	Effective shielding, yet low loss above 200 MHz
38M1020AA1212	M1	120 x 120 mm	0.2 mm	0.23 mm	20	3.6	3.6	3.6	4	3.3	
38M1040AA0606	M1	60 x 60 mm	0.4 mm	0.43 mm	20	4.7	4.7	4.7	5.1	5	
38M1050AA0606	M1	60 x 60 mm	0.5 mm	0.53 mm	20	5.6	5.6	5.6	6.1	6	Effective shielding, yet low loss at 50-200 MHz
38M2010AA1212	M2	120 x 120 mm	0.1 mm	0.13 mm	45	2	2	2	2.4	1.6	
38M2020AA1212	M2	120 x 120 mm	0.2 mm	0.23 mm	45	4.2	4.2	4.2	5	3.3	
38M2040AA0606	M2	60 x 60 mm	0.4 mm	0.43 mm	45	6.6	6.6	6.6	7.7	5.6	Effective shielding, yet low loss at 15 - 50 MHz
38M2050AA0606	M2	60 x 60 mm	0.5 mm	0.53 mm	45	8	8	8	9.3	6.6	
38M3010AA1212	M3	120 x 120 mm	0.1 mm	0.13 mm	60	3	3	3	3.1	1.5	
38M3020AA1212	M3	120 x 120 mm	0.2 mm	0.23 mm	60	5	5	5	5.6	3.1	Effective shielding, yet low loss at 15 - 50 MHz
38M3040AA0606	M3	60 x 60 mm	0.4 mm	0.43 mm	60	8.2	8.2	8.2	9.1	6	
38M3050AA0606	M3	60 x 60 mm	0.5 mm	0.53 mm	60	9	9	9	9.3	6.1	
38M4010AA1212	M4	120 x 120 mm	0.1 mm	0.13 mm	120	5.8	6.1	6.1	4	1.8	Optimal μ' and μ'' for NFC and A4WP
38M4020AA1212	M4	120 x 120 mm	0.2 mm	0.23 mm	120	9.5	8.6	9	6.6	3.1	
38M4040AA0606	M4	60 x 60 mm	0.4 mm	0.43 mm	120	12	11.3	11.7	9.3	5.6	
38M4050AA0606	M4	60 x 60 mm	0.5 mm	0.53 mm	120	13.5	14.2	14.5	10.6	6.5	
38M5010AA1212	M5	120 x 120 mm	0.1 mm	0.13 mm	140	10	9.2	8	3.6	1.5	Best Temperature Coefficient for NFC and A4WP
38M5020AA1212	M5	120 x 120 mm	0.2 mm	0.23 mm	140	11	11.2	9.9	5.1	2.5	
38M5040AA0606	M5	60 x 60 mm	0.4 mm	0.43 mm	140	14.5	14	12.4	7.3	4	
38M5050AA0606	M5	60 x 60 mm	0.5 mm	0.53 mm	140	15.5	14.8	14	8.7	5.1	
38M6010AA1212	M6	120 x 120 mm	0.1 mm	0.13 mm	220	10	10.2	8.9	4.4	1.9	Provides maximal attenuation up to 50 MHz
38M6020AA1212	M6	120 x 120 mm	0.2 mm	0.23 mm	220	13.2	13.2	11.7	6.4	2.9	
38M6040AA0606	M6	60 x 60 mm	0.4 mm	0.43 mm	220	16	16	14.4	8.8	5	
38M6050AA0606	M6	60 x 60 mm	0.5 mm	0.53 mm	220	18.5	19	17.5	11	6.8	