



Noise Suppression Sheets

Flexield





Noise Suppression Sheets Flexield

Product compatible with RoHS directive Halogen-free

Overview of IFF series (Heat-resistant Type)

FEATURES

- \bigcirc High permeability at 13.56MHz (μ ' 80typical) for improved EMI noise absorption
- O Available for use in solder reflow processes (up to 260°C max)
- Operating temperature range of -40°C to +125°C
- O Available down to 0.05mm thickness
- O Ultra-high surface resistivity allowing for direct attachment to electrical components

APPLICATION

- O Direct attachment to unshielded power supply magnetics
- O High ambient temperature industrial equipment
- O Non-critical automotive systems
- Outdoor communication infrastructure equipment

■STANDARD SHAPE LIST

Material	Magnetic layer	Sheet	Roll dimensions		
name	thickness (mm)	dimensions (mm)	Width (mm)	Length (m)	
IFF08	0.050	300X200	300	100	
	0.100	300/200	300	100	



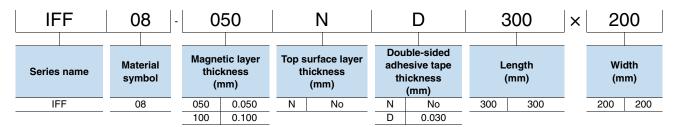


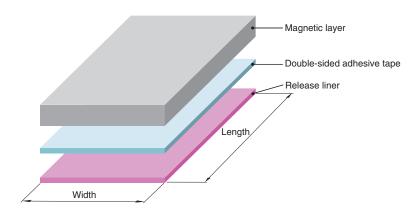
OROHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://product.tdk.com/en/environment/rohs/



IFF series (Heat-resistant Type) Sheet Type

PART NUMBER CONSTRUCTION





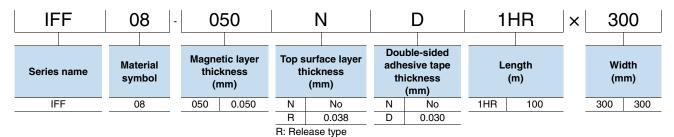
STANDARD PART NUMBER LIST

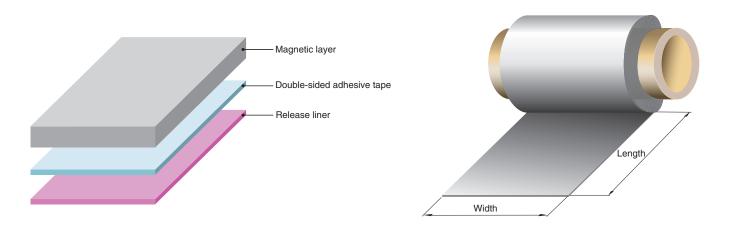
Material name	Sheet dimensions (mm)	Magnetic layer thickness (mm)	Total thickness (mm)typ.	Part number
IFF08	300X200	0.050	0.080	IFF08-050ND300X200
		0.100	0.130	IFF08-100ND300X200



IFF series (Heat-resistant Type) Roll Type

PART NUMBER CONSTRUCTION





STANDARD PART NUMBER LIST

Material name	Roll dimen	sions	Magnetic layer	Total	
	Width (mm)	Length (m)	thickness (mm)	thickness (mm)typ.	Part number
			0.050	0.080	IFF08-050ND1HRX300
IFF08	300	100	0.100	0.130	IFF08-100ND1HRX300
			0.050	0.118*	IFF08-050RD1HRX300

^{*} Note:Including top surface layer

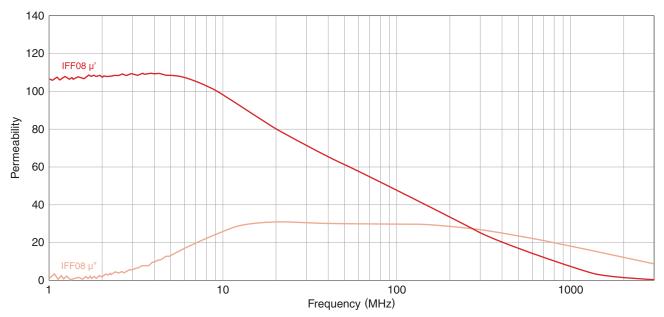


■ MATERIAL CHARACTERISTIC

MATERIAL CHARACTERISTIC SPECIFICATION TABLE

Material Recommended	Relative permeability			Surface resistivity	Thermal conductivity	Saturated magnetic flux density	Curie temperature	Relative Permittivity	Operating temperature		
name	specification	lat livimzi 🧸 lat i i	[at 13.	56MHz]	·		•	•	·		
		u'	u"	u'	u"	(Ω /sq.)typ.	(W/m • K)	(mT)	(°C)	(at 1MHz)typ.	(°C)
IFF08	10MHz to 3GHz	102	5	80	30	1M	1.5	150 [H=1194A/m]	> 500	1400	-40 to +125

□ Permeability

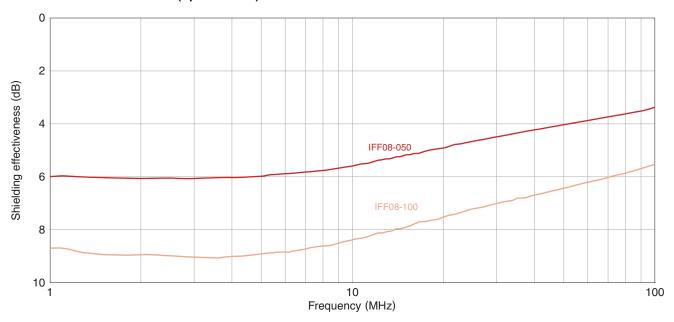


Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

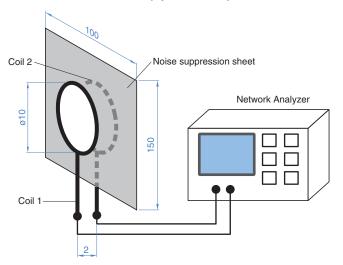


■ MATERIAL CHARACTERISTIC

☐SHIELDING EFFECTIVENESS (Up to 100MHz)



☐ MEASUREMENT SETUP (Up to 100MHz)

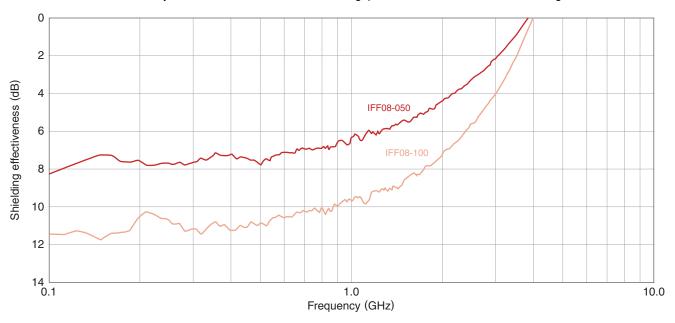




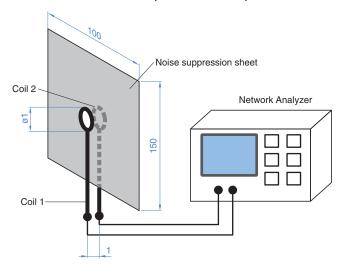
■ MATERIAL CHARACTERISTIC

☐SHIELDING EFFECTIVENESS (100MHz to 6GHz)*

* Note that there is no continuity with data below 100 MHz. Since the gap between the coils is shortened, the gain is a little increased.

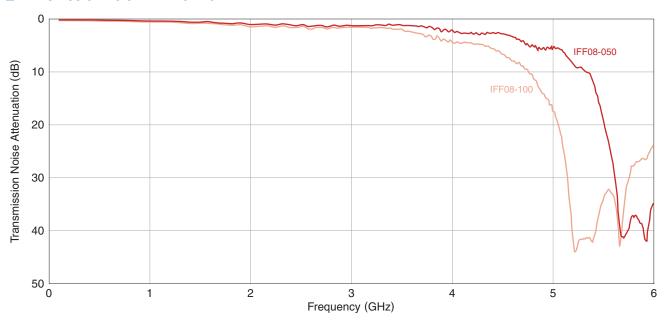


■ MEASUREMENT SETUP (100MHz to 6GHz)



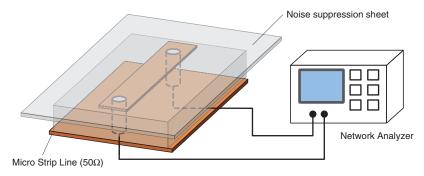
■ MATERIAL CHARACTERISTIC

TRANSMISSION NOISE ATTENUATION



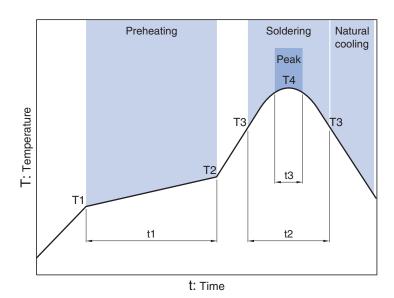
■ MEASUREMENT SETUP

NOTE: Refers to IEC62333-1,2 (Transmission Attenuation power ratio)





■ RECOMMENDED REFLOW PROFILE



Soldering Preheating Critical zone (T3 to T4) Peak Temp. Time Temp. Time Temp. Time T2 150°C 180°C 60 to 120s 230°C 40s max. 260°C max. Within 5s



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

↑ REMINDERS

The products listed in this specification are intended for use in automotive applications under normal operation and usage conditions.
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality requires a more stringent level of safety or reliability, or whose failure, malfunction or defect could cause serious damage to society, person or property.

Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet. If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in this specification, please contact us.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (electric trains, ships, etc.)
- (3) Medical equipment (excepting Pharmaceutical Affairs Law classification Class1,2)
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

In addition, although the products listed in this specification are intended for use in automotive applications as described above, they are not prohibited to use in general electronic equipment, whose performance and/or quality doesn't require a more stringent level of safety or reliability, or whose failure, malfunction or defect could not cause serious damage to society, person or property. Therefore, the description of this caution will be applied, when the products are used in general electronic equipment under a normal operation and usage conditions.