



Noise suppression sheets

Flexield

IFF series (Heat-resistant)

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**

- When mounting on live electrical parts directly, there is a fear that an insulation accident is caused, so please consider on the design in case of use.
- There is a fear that sullenness of double sided adhesive tape occurs, so please refrain from the use to a part where you wind repeatedly by which it's for the hinge part.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. When the damage occurs by having been used the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please understand that the responsibility cannot be taken.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (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 using these products in general purposes and standard use, it is recommended that protection circuits are used, devices are secured, and backup circuits are kept for increased safety.

Noise suppression sheets

Product compatible with RoHS directive
Halogen-free

Flexield

Overview of IFF series

FEATURES

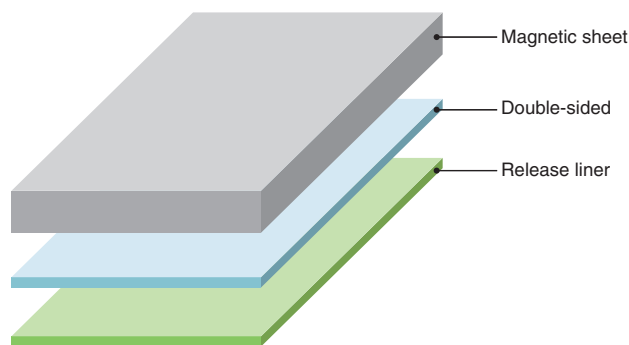
- Available for reflow profile (260deg.C max)
- Realize permeability μ' 100 type (@1MHz) and μ' 80 type (@13.56MHz)
- Available for the temperature range of -40 to +125deg.C

APPLICATION


- Suppression of unnecessary radiation from the IC which become a noise source.
- Unnecessary radiation and conductive noise from cable with which between the substrates or substrate and a part are suppressed.

PART NUMBER CONSTRUCTION

IFF		08		-		050		N		D		300		×		200	
Series name		Material symbol		Magnetic material thickness (mm)		Surface film thickness (mm)		Double-sided tape thickness (mm)		Length		Width (mm)					
IFF		08		050	0.05	N	No	N	No	300	300(mm)	200	200				
		100	0.1	R	0.038	D	0.03	1HR	100(m)	300	300						



- RoHS Directive Compliant Product: See the following for more details. <https://product.tdk.com/info/en/environment/rohs/index.html>
- Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

 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.

IFF series

STANDARD PART NUMBER LIST

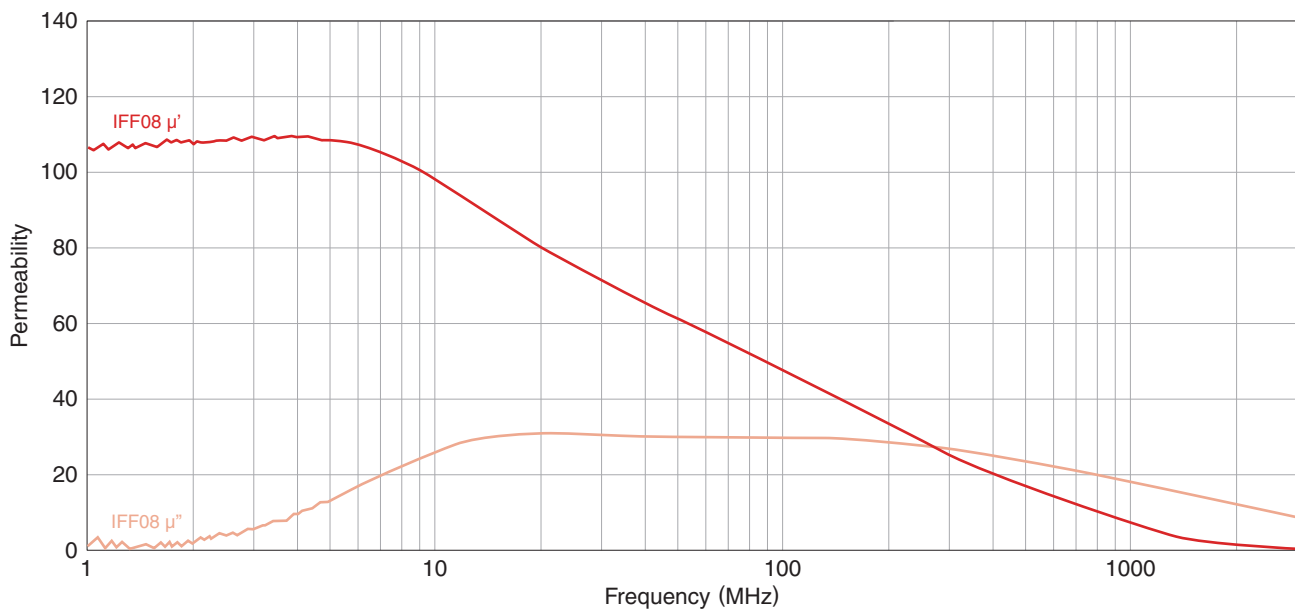
Material name	Standard dimensions	Magnetic layer thickness (mm)	Part No.	Type
IFF08	300mm x 200mm	0.05	IFF08-050ND300X200	Sheet
		0.1	IFF08-100ND300X200	
	100m x 300mm	0.05	IFF08-050RD1HRX300	Roll

MATERIAL CHARACTERISTIC

MATERIAL CHARACTERISTIC SPECIFICATION TABLE

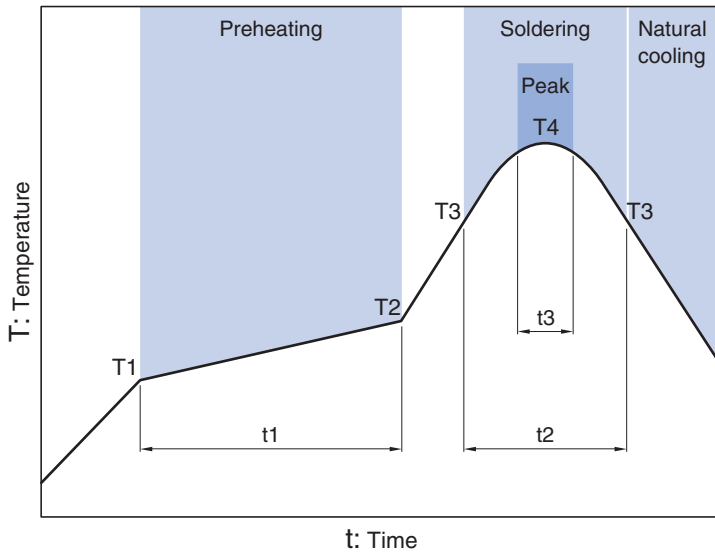
Material name	Recommended frequency range	Surface resistivity ($\Omega/\text{sq.}$)min	Thermal conductivity ($\text{W/m} \cdot \text{K}$)	Operating temperature range ($^{\circ}\text{C}$)	Relative permeability			
					(at 1MHz) μ'	μ''	(at 13.56MHz) μ'	μ''
IFF08	10MHz to 3GHz	1M	1.5	-40 to +125	102 typ.	5 typ.	80 typ.	30 typ.

PERMEABILITY



IFF series

RECOMMENDED REFLOW PROFILE



Preheating			Soldering			
			Critical zone (T3 to T4)		Peak	
Temp.	T2	Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	40s max.	260°C max.	Within 5s

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