

# Ferrite sheet for Wireless Power Transfer

Series name

**WCF95** 

## **WCF95**

### FEATURES

- •0.3mm thick Mn-Zn ferrite sheet
- · Pre-cracked structure for mechanical flexibility
- · High permeability, u'=500 with pre-cracked and low core loss based on Mn-Zn Material
- Shape/Dimension :Custom shapes, sizes and thicknesses available upon request Maximum size : 100mm x 66mm
- · Compliant with RoHS Directive

### APPLICATION

- · Wireless Charging (Frequency: 100kHz to 1MHz)
- · Protects system from noise (Frequency: 100kHz to 100MHz)

### TEMPERATURE RANGE

Operating temperature -40 to +125 °C

### SHAPE LIST

Material	Magnetic layer	Magnetic layer	Total	Total dimensions	
name	thickness	dimensions	thickness		
	(mm)	(mm)	(mm)	(mm)	
WCF95	0.30	84 X 66	0.37	85 X 67	

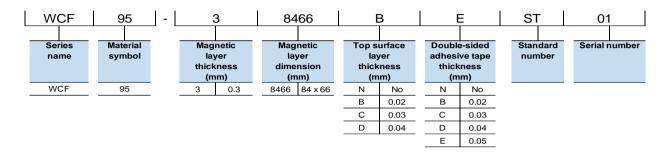
Please contact us for the customized size.



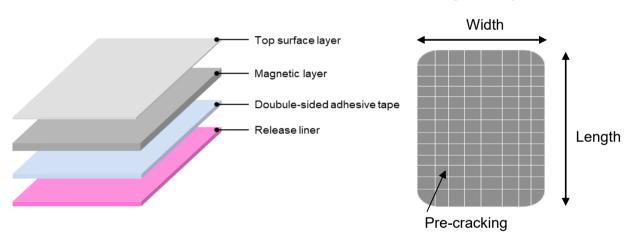


## **WCF95**

### PART NUMBER CONSTRUCTION



#### **Magnetic layer**



## STANDARD PART NUMBER LIST

(Typical)

Material name	Part number	Magnetic layer dimensions (mm)	Magnetic layer thickness (mm)	Total thickness (mm)
WCF95	WCF95-38466BEST01	84 X 66	0.30	0.37

## **WCF95**

## MATERIAL CHARACTERISTICS

#### ☐ Material Characteristic Table

(Typical)

Material	Rela	Surface		
name	( at 100kHz )			resistivity
	u'	u"	u'/u"	( ohm/sq. )
WCF95	500	15	33	10G

(Typical)

(1)							,	
	Core Loss			Magnetic flux density				
Material	Pcv			Bs				
name	(kW/m3)			(mT)				
	B=200mT 100kHz			H=1000A/m				
	sine wave							
WCF95	25°C	60°C	100°C	120°C	25°C	60°C	100℃	120°C
VVCF95	1600	1610	1700	1710	530	475	410	370

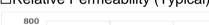
100.00

10.00

Frequency[MHz]

1,000.00

#### □Relative Permeability (Typical)



1.00

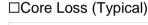
Pre-crack

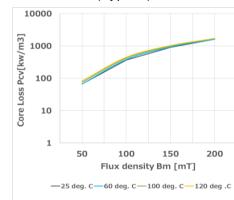
600

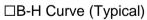
400

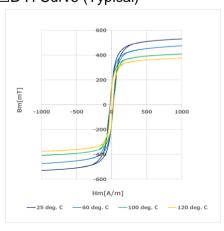
200

0.10

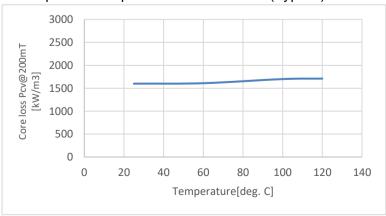








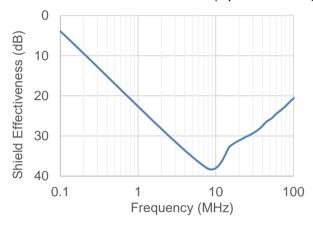
#### ☐Temperature dependence of core loss (Typical)



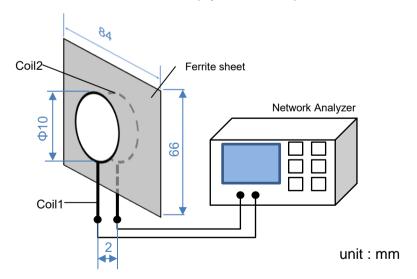
# **WCF95**

## MATERIAL CHARACTERISTICS

### ☐ SHIELDING EFFECTIVENESS (Up to 100MHz)



#### ☐ MEASUREMENT SETUP (Up to 100MHz)



### 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 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.

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 the each catalog, 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.