

Noise suppression filter For audio lines (FM band suppression) **MAF** series









## MAF1005F type













#### **FEATURES**

- OA compact noise suppression component for audio lines.
- Distortions are greatly reduced during insertion with the adoption of low distortion ferrite materials.
- Suitable for a device with high quality sound required for generation of voice distortion is suppressed.
- For the high damping special quality, the high effect is shown by a receiver sensitivity measure of an FM band by 66MHz to 108MHz and 108MHz to 400MHz.
- Operating temperature range: -55 to +125°C

#### APPLICATION

- Sound lines for devices such as smartphones and tablets which FM is put on (earphones, microphones)
- Sound lines for portable game machines which FM is put on (earphone, microphone)

#### PART NUMBER CONSTRUCTION

MAF	1005	F	SA	102	Α	Т	000
Series	L×W×Tdimensions	Characteristics	Internal	Impedance	Internal	Packaging	Internal
name	1.0×0.5x0.7 mm	Characteristics	code	(Ω) at 100MHz	code	style	code

#### CHARACTERISTICS SPECIFICATION TABLE

Impedance	DC resistance		Rated current	Part No.	
[100MHz]					
(Ω)Typ.	(Ω)Typ.	(Ω)Max.	(mA)max.		
1000	0.75	0.90	230	MAF1005FSA102AT000	

#### Measurement equipment

Measurement item	Product No.	Manufacturer
Impedance	E4991A+16192A	Keysight Technologies
DC resistance	Type-7556	Yokogawa

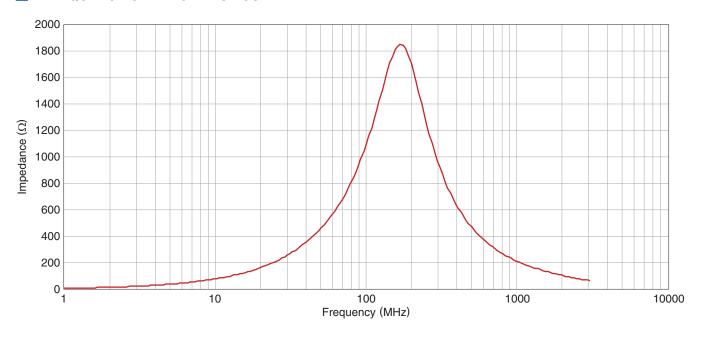
<sup>\*</sup> Equivalent measurement equipment may be used.



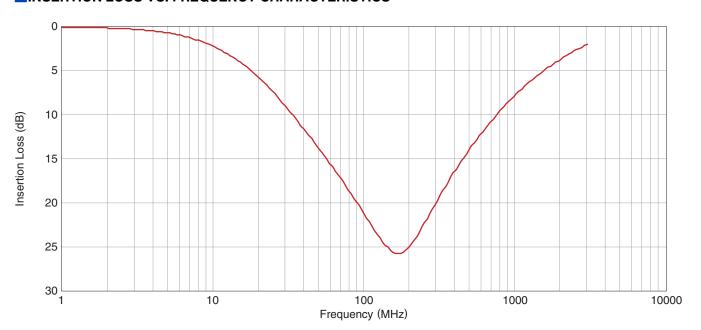


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#### Z FREQUENCY CHARACTERISTICS



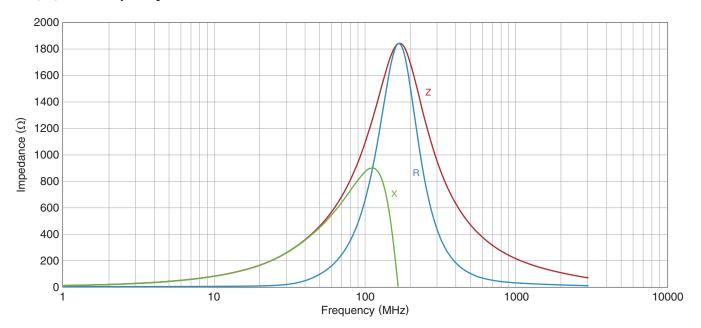
## ■INSERTION LOSS VS. FREQUENCY CHARACTERISTICS





# MAF1005F type

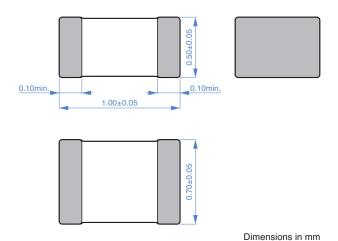
### Z, X, R vs. frequency characteristics





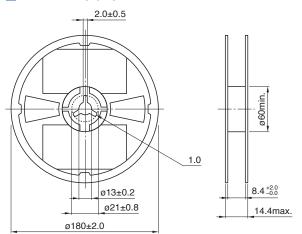
## MAF1005F type

#### SHAPE & DIMENSIONS



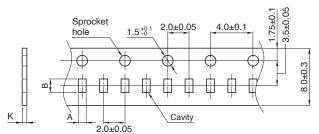
## PACKAGING STYLE

#### REEL DIMENSIONS



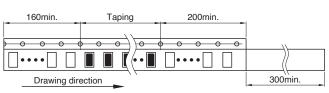
Dimensions in mm

#### **TAPE DIMENSIONS**



Dimensions in mm

Туре	Α	В	K
MAF1005F	0.62+0.05	112+0.05	1.0 max



Dimensions in mm

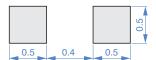
PACKAGE QUANTITY	2
Package guantity	8.000 pcs/reel

## TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range *	Individual weight
-55 to +125°C	-55 to +125°C	1 mg

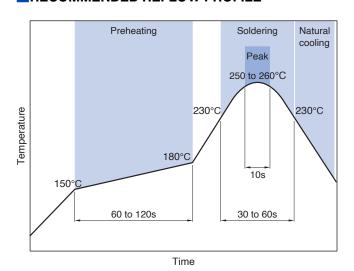
<sup>\*</sup> The storage temperature range is for after the assembly.

#### RECOMMENDED LAND PATTERN



Dimensions in mm

## RECOMMENDED REFLOW PROFILE



## 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 this products

### REMINDERS

The storage period is within 12 months. Be sure to follow the s RH or less). If the storage period elapses, the soldering of the terminal ele-	
On not use or store in locations where there are conditions suc	
Soldering corrections after mounting should be within the rang If overheated, a short circuit, performance deterioration, or life	ge of the conditions determined in the specifications.
OWhen embedding a printed circuit board where a chip is moun due to the overall distortion of the printed circuit board and pa	
Self heating (temperature increase) occurs when the power is thermal design.	turned ON, so the tolerance should be sufficient for the set
Carefully lay out the coil for the circuit board design of the nor A malfunction may occur due to magnetic interference.	n-magnetic shield type.
Ouse a wrist band to discharge static electricity in your body the	rough the grounding wire.
ODo not expose the products to magnets or magnetic fields.	
ODo not use for a purpose outside of the contents regulated in t	he delivery specifications.
The products listed on this catalog are intended for use in gen equipment, home appliances, amusement equipment, comput measurement equipment, industrial robots) under a normal op The products are not designed or warranted to meet the requir or quality require a more stringent level of safety or reliability, damage to society, person or property.  If you intend to use the products in the applications listed beloconditions set forth in the each catalog, please contact us.	er equipment, personal equipment, office equipment, eration and use condition. ements of the applications listed below, whose performance and or whose failure, malfunction or trouble could cause serious
(1) Aerospace/aviation equipment (2) Transportation equipment (cars, electric trains, ships, etc.)	(7) Transportation control equipment (8) Public information-processing equipment (9) Military equipment

- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed 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.