

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Noise suppression filter

For audio lines (FM band suppression)

MAF series

MAF1005F type

MAF1005F 1005 [0402 inch]*

* Dimensions Code JIS[EIA]

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 less than 12 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH of less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
On not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
 Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
 Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermadesign.
 Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.
○ Use a wrist band to discharge static electricity in your body through the grounding wire.
On not expose the products to magnets or magnetic fields.
On not use for a purpose outside of the contents regulated in the delivery specifications.
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 societ

- (1) Aerospace/aviation equipment
- $\hbox{(2) Transportation equipment (cars, electric trains, ships, etc.)}\\$
- (3) Medical equipment

person or property.

(4) Power-generation control equipment

set forth in the each catalog, please contact us.

- (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.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions



Noise suppression filter

For audio lines (FM band suppression)

Product compatible with RoHS directive
Halogen-free
Compatible with lead-free solders

Overview of MAF1005F type

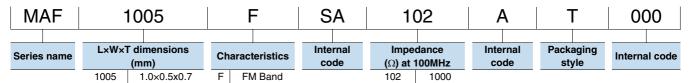
FEATURES

- A compact noise suppression component for audio lines.
- Objections are greatly reduced during insertion with the adoption of low distortion ferrite materials.
- O Suitable for a device with high quality sound required for generation of voice distortion is suppressed.
- O 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.

APPLICATION

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

■ PART NUMBER CONSTRUCTION



■ OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

	Temperat	ure range	Package quantity	Individual weight
Туре	Operating temperature	Storage temperature*		
	(°C)	(°C)	(pieces/reel)	(mg)
MAF1005F	-55 to +125	-55 to +125	8,000	1

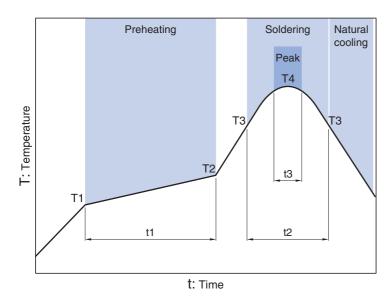
^{*} The storage temperature range is for after the assembly.

RoHS Directive Compliant Product: See the following for more details. https://product.tdk.com/info/en/environment/rohs/index.html

O Halogen-free: indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.



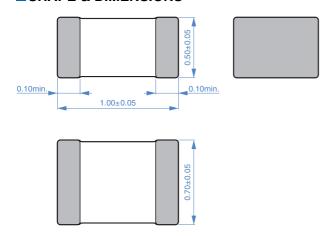
■ RECOMMENDED REFLOW PROFILE



Preheating Soldering Peak Temp. Temp. Time Time Temp. Time T1 T2 Т3 **T4** 150°C 180°C 60 to 120s 230°C 30 to 60s 250 to 260°C 10s



SHAPE & DIMENSIONS





Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm



ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Impedance	DC resistance	9	Rated current	Part No.
[100MHz]				
(Ω)typ.	(Ω)typ.	(Ω)max.	(mA)max.	
1000	0.75	0.90	230	MAF1005FSA102AT000

O Measurement equipment

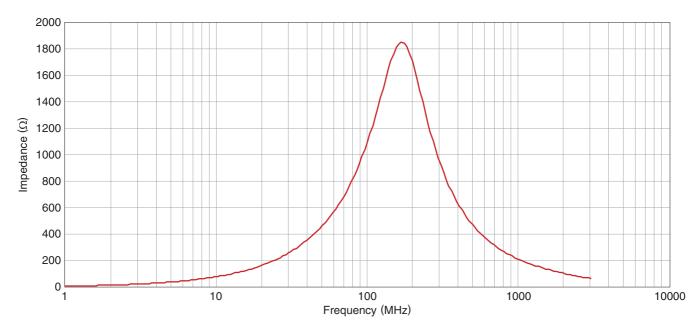
Measurement item	Product No.	Manufacturer	
Impedance	E4991A+16192A	Keysight Technologies	
DC resistance	Type-7556	Yokogawa	

^{*} Equivalent measurement equipment may be used.

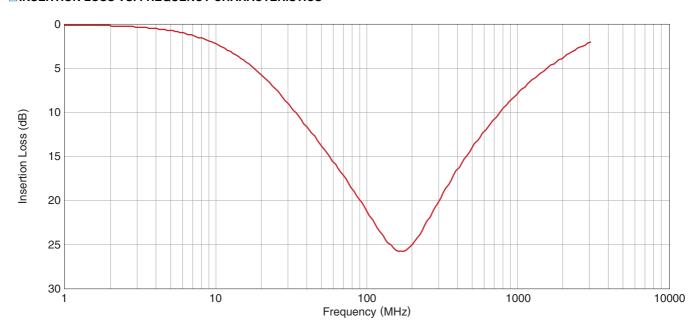


ELECTRICAL CHARACTERISTICS

Z FREQUENCY CHARACTERISTICS



☐ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS

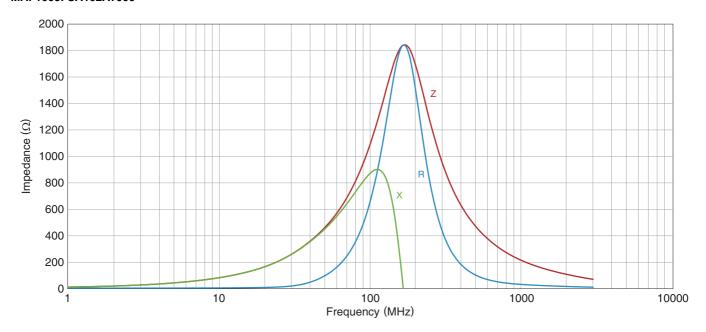


Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



ELECTRICAL CHARACTERISTICS

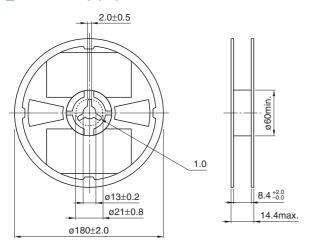
□Z, X, R VS. FREQUENCY CHARACTERISTICS MAF1005FSA102AT000





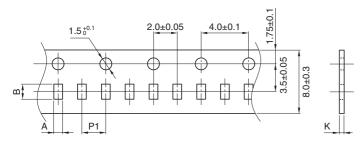
■PACKAGING STYLE

□REEL DIMENSIONS



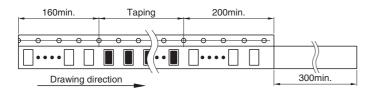
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Туре	Α	В	P1	K
MAF1005F	0.65±0.1	1.15±0.1	2.0±0.05	1.0 max.



Dimensions in mm

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