

Noise suppression filter For audio lines (Bluetooth and WiFi bands suppression) **MAF** series









MAF1005GW type













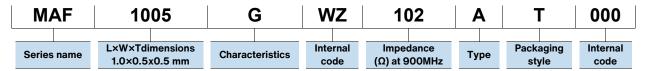
FEATURES

- A noise suppression component for audio lines.
- Distortions are greatly reduced during insertion with the adoption of newly-developed low distortion ferrite materials.
- O Small reductions in volume due to its low resistance, and optimal for devices that require high sound quality as the generating of sound distortions is controlled.
- The high-attenuation characteristics of the Bluetooth band, WiFi band, and cellular band are highly effective in preventing degradation of the reception sensitivity of radio equipment.
- Operating temperature range: -55 to +125°C

APPLICATION

- O Sound lines for devices such as smartphones, tablets, Bluetooth headset, headset, hearing aids and wearable equipments (earphones, microphones, and speakers).
- Sound lines for portable game machines.

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Impedance					DC resista	ance	Rated current	Part No.
[100MHz]	[900MHz]		[1.7GHz]	[2.4GHz]				
(Ω)Typ.	(Ω)Typ.	(Ω)Min.	(Ω)Typ.	(Ω)Typ.	(Ω)Typ.	(Ω)max.	(mA)max.	
180	1000	600	2300	2800	1.30	1.60	150	MAF1005GWZ102AT000

Measurement equipment

Measurement item	Product No.	Manufacturer
Impedance	4991A+16192A	Keysight Technologies
DC resistance	Type-755611	Yokogawa

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.

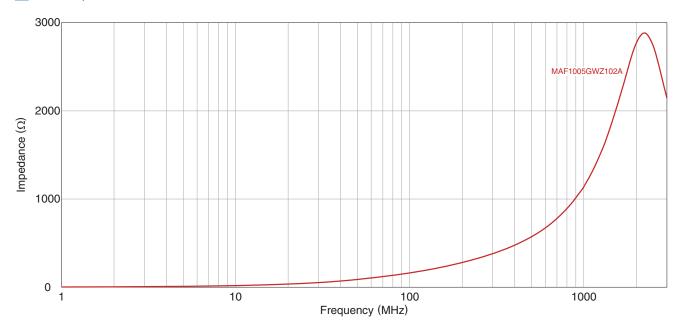


^{*} Equivalent measurement equipment may be used.

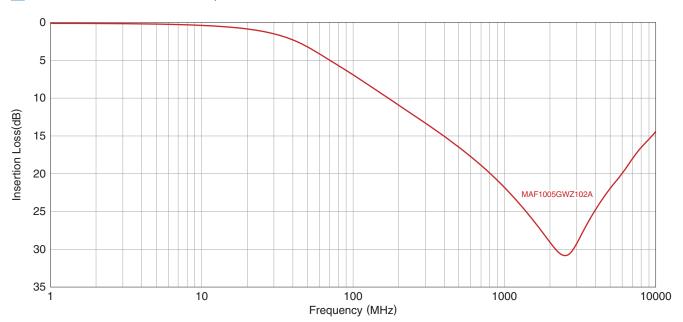


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Z FREQUENCY CHARACTERISTICS



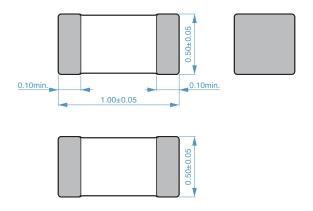
INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



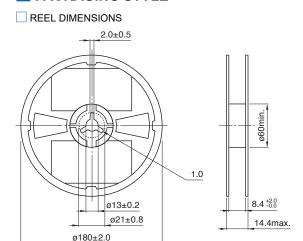


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SHAPE & DIMENSIONS

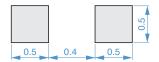


PACKAGING STYLE

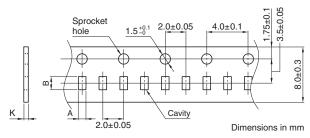


Dimensions in mm

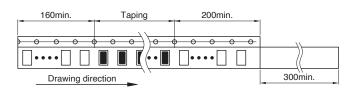
RECOMMENDED LAND PATTERN



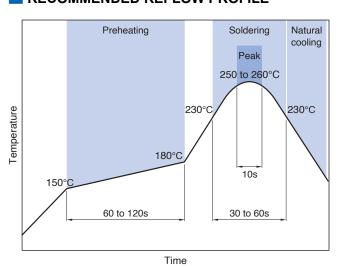
■ TAPE DIMENSIONS



Type	Α	В	K
MAF1005GW	0.65±0.1	1.15±0.1	0.8max.



RECOMMENDED REFLOW PROFILE



PACKAGE QUANTITY

Package quantity	10,000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

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

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

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 perio less).	d is within 12 months. Be sure to follow the storage	ge conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH o
If the storage perio	d elapses, the soldering of the terminal electrodes	may deteriorate.
O Do not use or store	e in locations where there are conditions such as g	gas corrosion (salt, acid, alkali, etc.).
•		difference between the solder temperature and chip temperature
_	ons after mounting should be within the range of th ort circuit, performance deterioration, or lifespan s	
•	a printed circuit board where a chip is mounted to a fit the printed circuit board and partial distortion suc	a set, be sure that residual stress is not given to the chip due to the h as at screw tightening portions.
Self heating (temposition) design.	perature increase) occurs when the power is turn	ned ON, so the tolerance should be sufficient for the set therma
• •	e coil for the circuit board design of the non-magn occur due to magnetic interference.	etic shield type.
◯ Use a wrist band to	o discharge static electricity in your body through t	he grounding wire.
O Do not expose the	products to magnets or magnetic fields.	
◯ Do not use for a pu	urpose outside of the contents regulated in the del	ivery specifications.
home appliances, industrial robots) u The products are quality require a m society, person or plf you intend to use	amusement equipment, computer equipment, p nder a normal operation and use condition. not designed or warranted to meet the requirem nore stringent level of safety or reliability, or who property.	ctronic equipment (AV equipment, telecommunications equipment bersonal equipment, office equipment, measurement equipment ents of the applications listed below, whose performance and/ose failure, malfunction or trouble could cause serious damage to you have special requirements exceeding the range or conditions
(3) Medical equipm	equipment (cars, electric trains, ships, etc.) nent on control equipment related 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

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.

applications

(13) Other applications that are not considered general-purpose