

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









MAF1005GW type















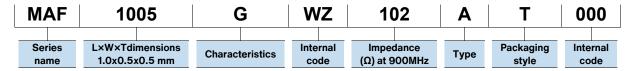
FEATURES

- A noise suppression component for audio lines.
- Obstortions are greatly reduced during insertion with the adoption of newly-developed low distortion ferrite materials.
- 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

- OAR/VR, TWS(True Wireless Stereo), 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 resistance		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

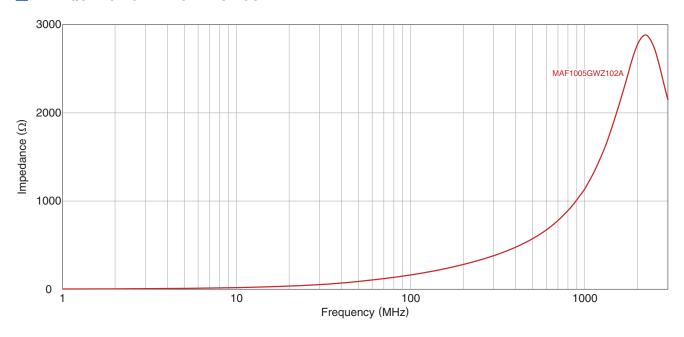
^{*} Equivalent measurement equipment may be used.



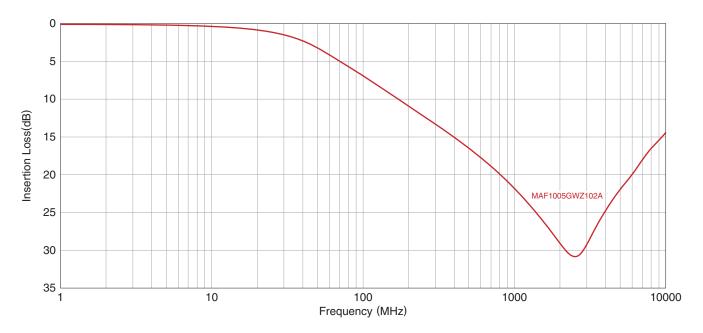


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Z FREQUENCY CHARACTERISTICS



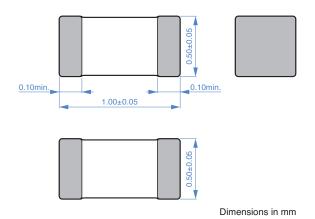
■INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



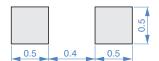


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SHAPE & DIMENSIONS



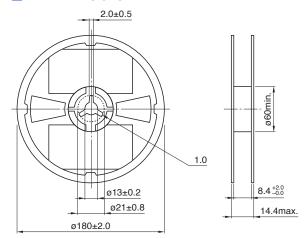
RECOMMENDED LAND PATTERN



Dimensions in mm

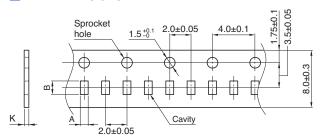
PACKAGING STYLE

REEL DIMENSIONS



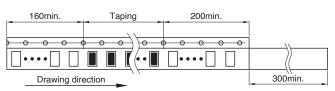
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

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



Dimensions in mm

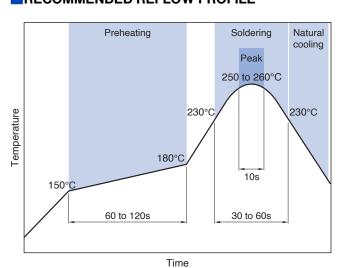
PACKAGE QUANTITY	Dimensione in in
Package quantity	10,000 pcs/reel

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.

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.