

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









MAF0603GW type













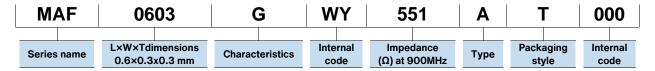
FEATURES

- This is an anti-noise component for audio lines developed for small-sized equipment.
- Obstortions are greatly reduced during insertion with the adoption of newly-developed low distortion ferrite materials.
- The high-attenuation characteristics of the Bluetooth band and the WiFi band are highly effective in preventing degradation of the reception sensitivity of radio equipment.
- OIt is also effective in preventing degradation of reception sensitivities in the sub-6GHz band of 5G (fifth-generation mobile communication systems), which will become the mainstream in the future.
- 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, and wearable equipments (earphones, microphones, and speakers).
- Sound lines for portable game machines.

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Impedance					DC resist	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.	
56	550	300	900	1350	1.70	2.20	125	MAF0603GWY551AT000

Measurement equipment

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

^{*} Equivalent measurement equipment may be used.

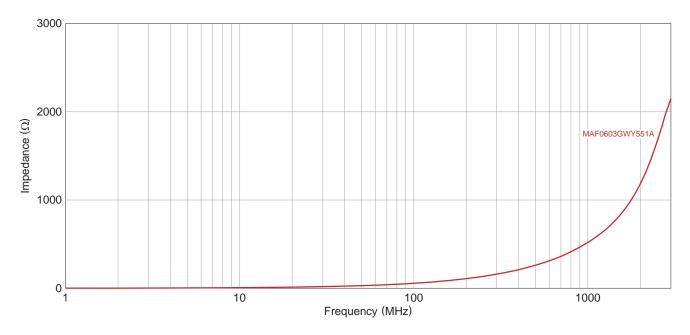




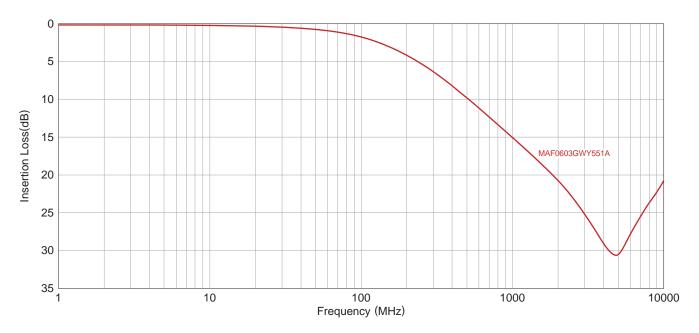


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Z FREQUENCY CHARACTERISTICS



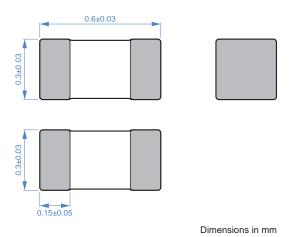
INSERTION LOSS VS. FREQUENCY CHARACTERISTICS





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SHAPE & DIMENSIONS

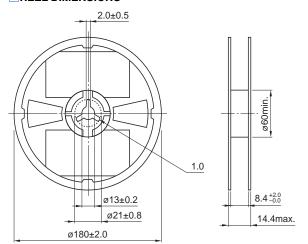


PACKAGING STYLE

REEL DIMENSIONS

TAPE DIMENSIONS

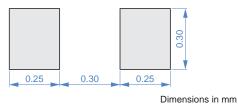
Sprocket

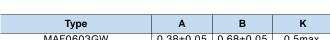


Dimensions in mm

3.5±0.05

RECOMMENDED LAND PATTERN

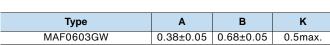


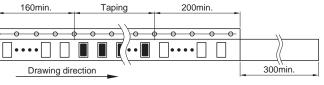


Cavity

2.0±0.05

4.0±0.1





Dimensions in mm

Dimensions in mm

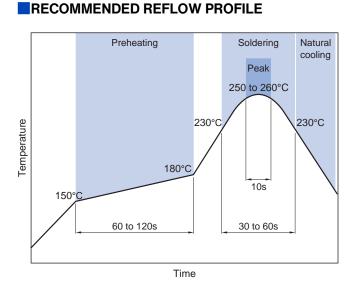
PACKAGE QUANTITY

Package quantity	15,000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range *	Individual weight
-55 to +125	-55 to +125	0.3 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 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-	
Do 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	·
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.
On not expose the products to magnets or magnetic fields.	
ODo not use for a purpose outside of the contents regulated in t	the 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 requires.	er equipment, personal equipment, office equipment,
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 belo conditions set forth in the each catalog, please contact us.	ow or if you have special requirements exceeding the range or
(1) Aerospace/aviation equipment	(7) Transportation control equipment
(2) Transportation equipment (cars, electric trains, ships, etc.)	(8) Public information-processing 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.