



**THE DATASHEET OF
MHF1608BAC352ATD25**



Noise suppression filter
For MF / HF band noise suppression
MHF series (for automotive)



AEC-Q200

MHF1608 type



FEATURES

- This noise suppression filter is effective for MF/HF noise suppression.
- The High-loss, High- μ ferrite material of the new development is adopted.
- Due to the high-attenuation characteristics at frequencies lower than 100MHz, it is highly effective in suppressing noise in the MF/HF band.
- Operating temperature range: -55 to $+125^{\circ}\text{C}$
- Compliant with AEC-Q200

APPLICATION

- Car navigation, car audio (AM/FM radio).
- BMS (Battery monitoring system)
- Various in-vehicle electronic control units (ECU)

PART NUMBER CONSTRUCTION

MHF	1608	B	AC	352	A	T	D25
Series name	LxWxT dimensions 1.6x0.8x0.8 mm	Characteristics	Internal code	Impedance (Ω) at 10MHz	Internal code	Packaging style	Internal code

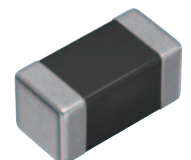
CHARACTERISTICS SPECIFICATION TABLE

Impedance	DC resistance		Rated current	Part No.
[1MHz] (Ω)Typ.	[10MHz] (Ω)tolerance	[100MHz] (Ω)typ.	(mA)max.	
80	$600 \pm 25\%$	1200	350	MHF1608BAC601ATD25
220	$1800 \pm 25\%$	1800	250	MHF1608BAC182ATD25
280	$2500 \pm 25\%$	1800	200	MHF1608BAC252ATD25
380	$3500 \pm 25\%$	1600	170	MHF1608BAC352ATD25

Measurement equipment

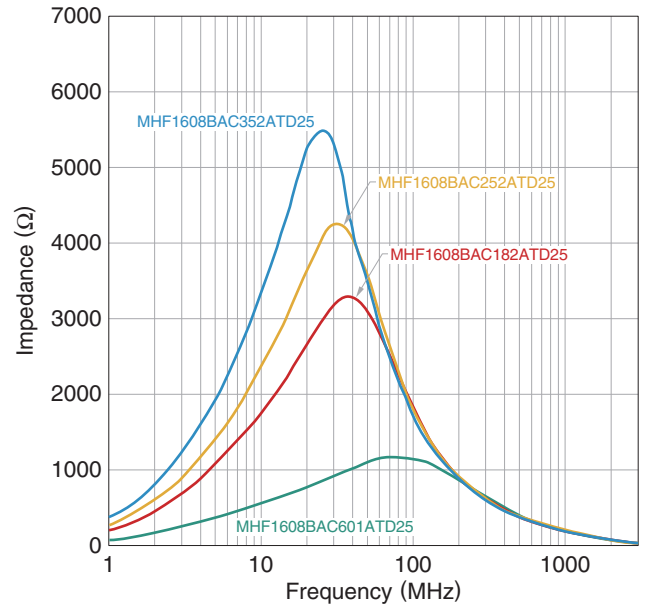
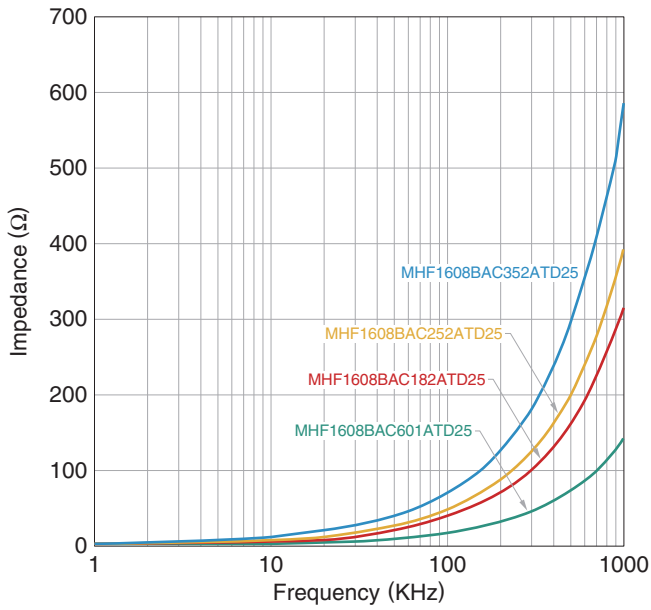
Measurement item	Product No.	Manufacturer
Impedance	E4991A+16192A	Keysight Technologies
DC resistance	Type-7556	Yokogawa

* Equivalent measurement equipment may be used.

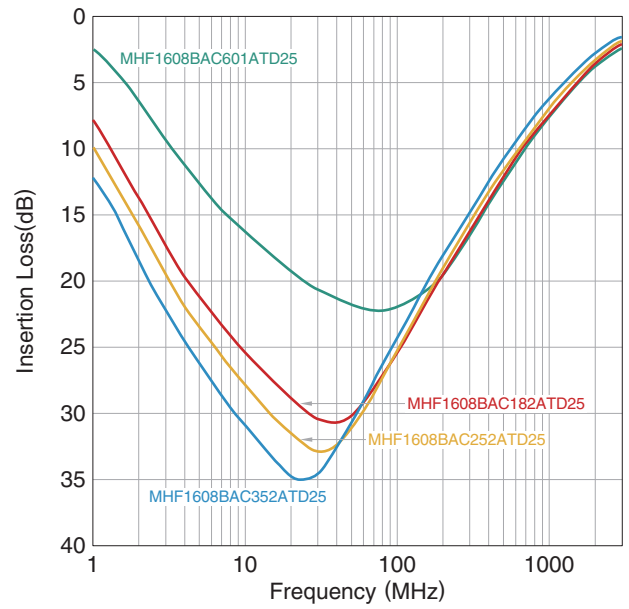
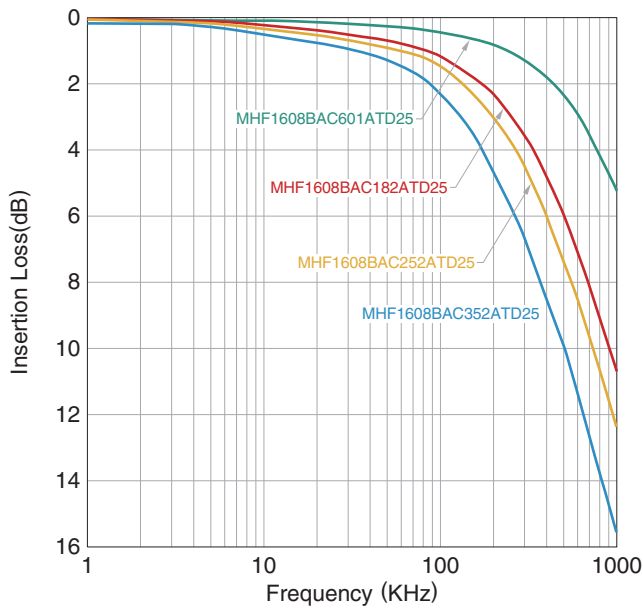


MHF1608 type

Z VS. FREQUENCY CHARACTERISTICS

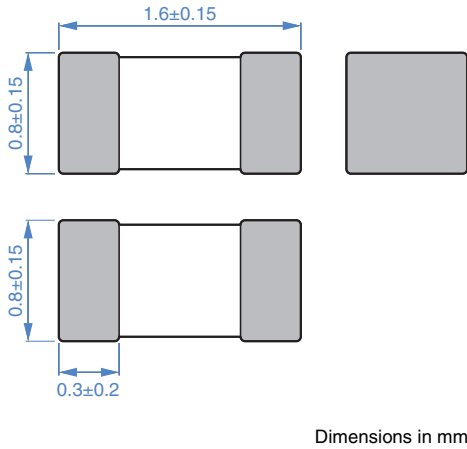


INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



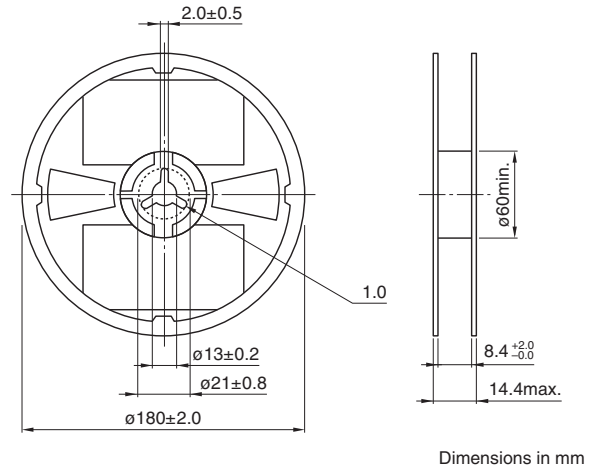
MHF1608 type

SHAPE & DIMENSIONS

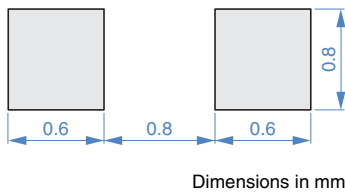


PACKAGING STYLE

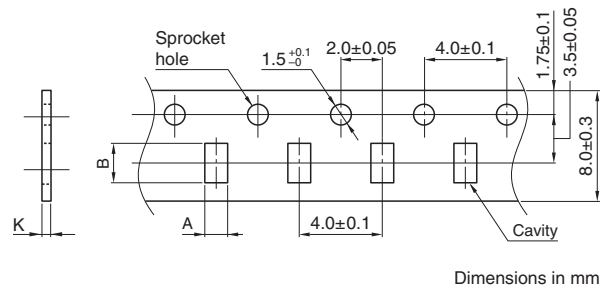
REEL DIMENSIONS



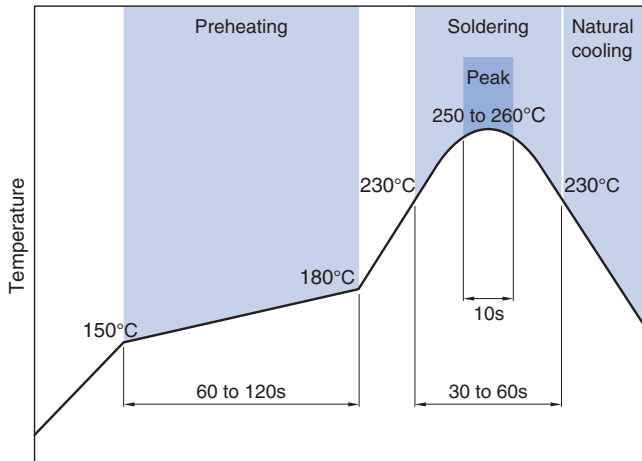
RECOMMENDED LAND PATTERN



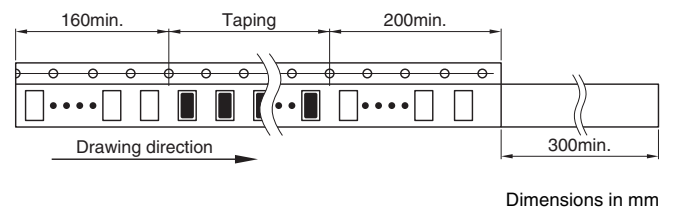
TAPE DIMENSIONS



RECOMMENDED REFLOW PROFILE



Type	A	B	K
MHF1608	1.1 ± 0.2	1.9 ± 0.2	1.1 max.



PACKAGE QUANTITY

Package quantity	4,000 pcs/reel
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TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range*	Individual weight
-55 to +125 °C	-55 to +125 °C	5.2 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 less than 12 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH or less).
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Do 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 to 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 thermal design.
- 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.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products described in this catalog are intended to be installed in automobiles or automotive electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) and to be used in automobiles (including the case where the said automotive product is mounted in a vehicle) or standard applications as general electronic equipment in automotive applications or standard applications as general electronic equipment in automotive applications in accordance with the scope and conditions described in this specification, while the said automotive or general electronic equipment including the said product is intended to be used in the usual operation and usage methods, respectively. Other than automotive or automotive products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality requires a more stringent level of safety or reliability, or whose failure, malfunction or defect could cause serious damage to society, person or property.
Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet.
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in this specification, please contact us.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (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.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View MHF1608BAC352ATD25 on WIN SOURCE](#)
- ⊖ [TDK Corporation Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management