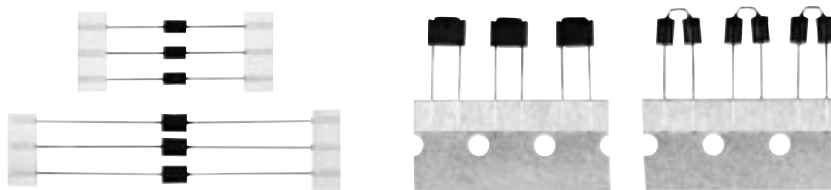


Type: **EXCEL**

- For reduction of high-frequency noise
- Low cost noise filter
- Axial and radial taped types are available for automatic insertion machines

- Digital equipment such as PCs, word processors, printers, HDD, PPC, and communication equipment.
- Digital audio and video equipment.
- AC adapters, and switching power supplies.
- Electronic musical instruments, and other digital equipment.

The diagram illustrates the breakdown of the part number 2435T into its components:

- Product Code:** 24 (Noise Filter)
- Type:** 3 (EMI bead core)
- Number of Beads:** 5
- Type:** T
- Size:** T

The diagram also includes a table for the part number 2435T, showing the breakdown of the part number into its components:

Code	Quantity	Code	Type	Code	Dimension (mm)	Code	Packing
S	1	A	Axial	24	ø2.8×4.8	Nil	Standard Axial Bulk Packing
D	2	R	Radial 5 mm pitch	35	ø3.8×5.3	C	Radial Formed Type
		V	Radial 5 mm pitch	39	ø3.8×9.3	S	Radial Formed Type
				25	7.7×5.3×2.45	T	26 mm Axial Taped & Box, 16 mm Radial Taped & Box
				27	7.7×7.8×2.45	V	52 mm Axial Taped & Box, 19 mm Radial Taped & Box
						B	Cut & Formed (10 mm pitch)
						E	Cut & Formed (15 mm pitch)

Part Number	Mass (Weight) [mg/pc.]	Standard Quantity
EXCELSA24	185	2000 pcs.
EXCELSA24B	145	2000 pcs.
EXCELSA24T	182	2000 pcs.
EXCELSA24V	238	2000 pcs.
EXCELSA35	378	1000 pcs.
EXCELSA35B	291	2000 pcs.
EXCELSA35T	323	1000 pcs.
EXCELSA35V	379	1000 pcs.
EXCELSA39	536	1000 pcs.
EXCELSA39E	457	2000 pcs.
EXCELSA39V	539	1000 pcs.
EXCELSR35S	317	2000 pcs.
EXCELSR35T	356	1000 pcs.
EXCELSV35S	307	2000 pcs.
EXCELSV35V	360	1000 pcs.
EXCELDR25C	428	2000 pcs.
EXCELDR25V	488	2000 pcs.
EXCELDR27C	637	2000 pcs.
EXCELDR27V	670	2000 pcs.
EXCELDR35C	546	2000 pcs.
EXCELDR35V	614	1000 pcs.

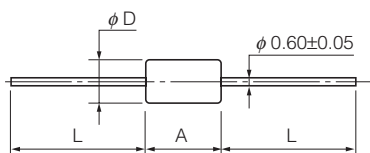
■ Ratings

Part Number	Impedance ⁽¹⁾ (Ω)	DC Resistance (m Ω)	Insulation Resistance (M Ω)	Rated Current (A DC)	Category Temp. Range (Operating Temp. Range) (°C)
EXCELSA24□	30 min.	10 max.	10 min.	7 max.	-25 to +85
EXCELSA35□	50 min.				
EXCELSA39□	80 min.				
EXCELSR35□	50 min.				
EXCELSV35□	50 min.				
EXCELD25□	80 min.				
EXCELD27□	160 min.				
EXCELD35□	90 min.				

(1) Measurement Temperature: +20 °C, Measurement Frequency: 100 MHz

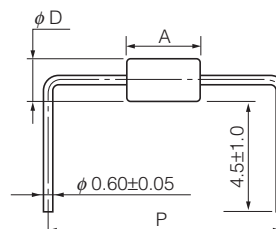
■ Dimensions in mm (not to scale)

● EXCELSA24 EXCELSA35 EXCELSA39



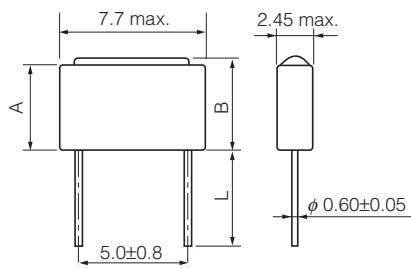
	ELSA24	ELSA35	ELSA39
D	$\phi 2.8$ max.	$\phi 3.8$ max.	$\phi 3.8$ max.
A	4.8 max.	5.3 max.	9.3 max.
L	10 min.	20 min.	18 min.

● EXCELSA24B EXCELSA35B EXCELSA39E



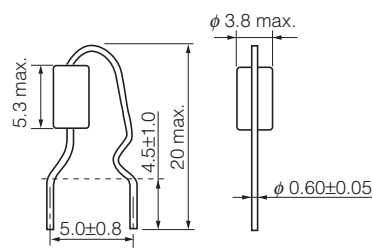
	ELSA24	ELSA35	ELSA39
D	$\phi 2.8$ max.	$\phi 3.8$ max.	$\phi 3.8$ max.
A	4.8 max.	5.3 max.	9.3 max.
L	10 min.	20 min.	18 min.

● EXCELD25C EXCELD27C

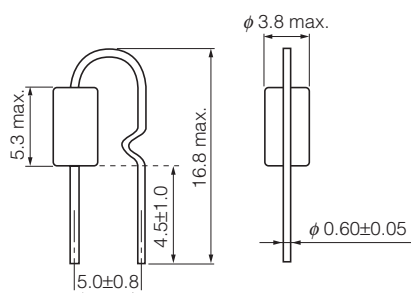


	ELDR25C	ELDR27C
A	5.3 max.	7.8 max.
B	7 max.	9.5 max.
L	4.5±1.0	8.0±1.0

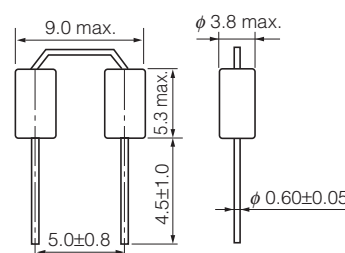
● EXCELSR35S



● EXCELSV35S



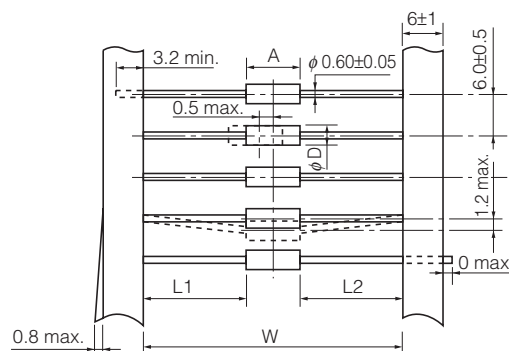
● EXCELD35C



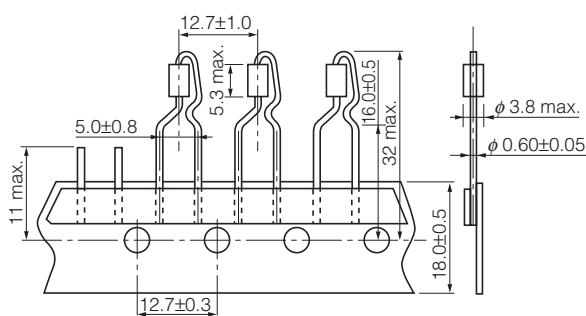
Taping Dimensions in mm (not to scale)

- EXCELSA24T
- EXCELSA35T
- EXCELSA24V
- EXCELSA35V
- EXCELSA39V

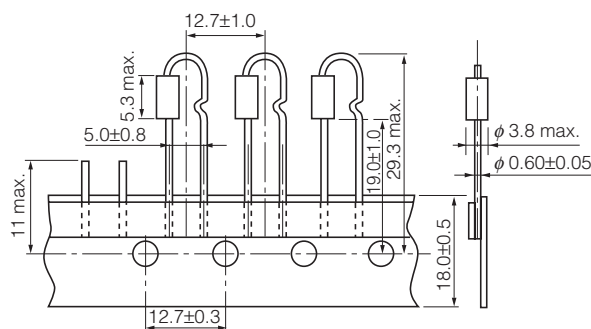
	ELSA24T	ELSA35T	ELSA24V	ELSA35V	ELSA39V
D	φ2.8 max.	φ3.8 max.	φ2.8 max.	φ3.8 max.	φ3.8 max.
A	4.8 max.	5.3 max.	4.8 max.	5.3 max.	9.3 max.
W	26.0 ^{+0.5} ₀	26.0 ^{+0.5} ₀	52±1	52±1	52±1
L ₁ -L ₂	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5



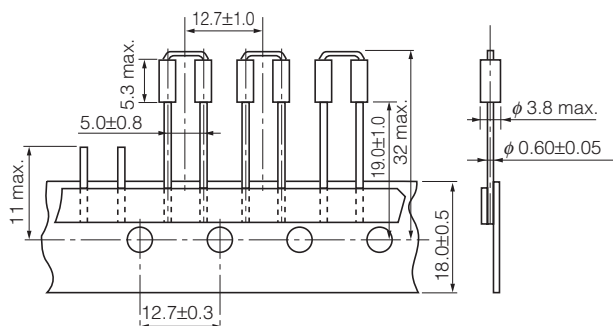
- EXCELSR35T



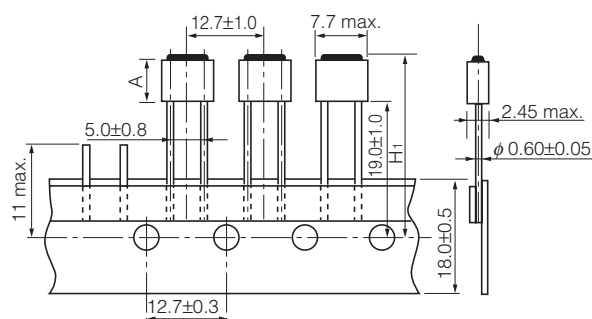
- EXCELSV35V



- EXCELD35V

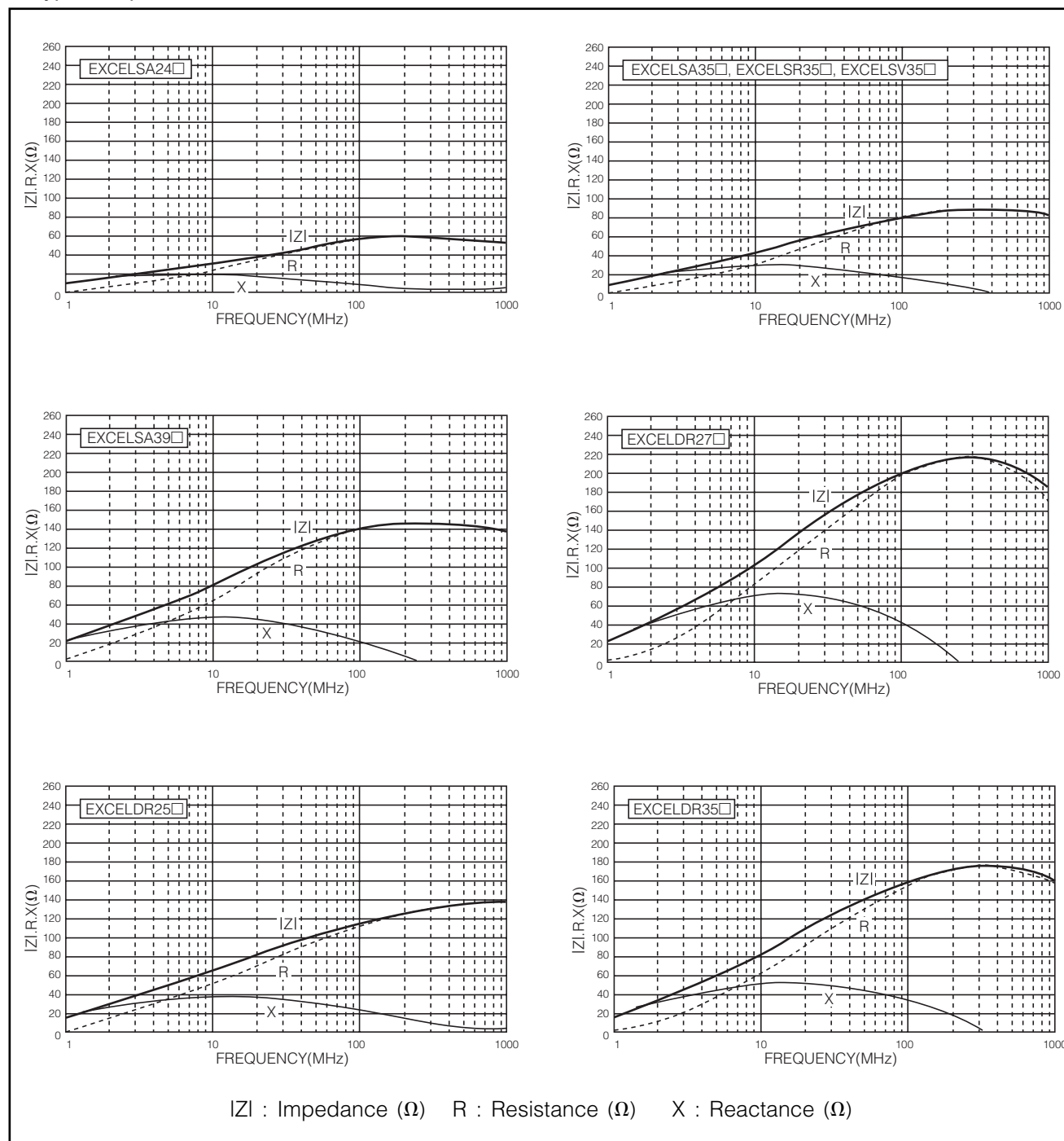


- EXCELD25V
- EXCELD27V



	ELDR25V	ELDR27V
A	5.3max.	7.8max.
H ₁	27max.	29.5max.

Typical Impedance Characteristics



⚠ Safety Precautions

The following are precautions for individual products. Please also refer to the precautions common to EMI Filters, Fuses, and Sensors(MR Elements) shown on page EX2 of this catalog.

1. Use rosin-based flux or halogen-free flux.
2. For cleaning, use an alcohol-based cleaning agent. Before using any other type, consult with our sales person in advance.
3. Carefully handle EMI Bead Cores (hereafter called the bead cores) so as not to apply excessive mechanical stress to their bodies in order to avoid damaging them.
4. Store the bead cores in a location with a temperature ranging from -5°C to $+40^{\circ}\text{C}$ and a relative humidity of 40 % to 60 %, where there are no rapid changes in temperature or humidity.
5. Use the bead cores within a year after the date of the outgoing inspection indicated on the packages.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

Safety Precautions (Common precautions for EMI Filters, Fuses, and Sensors[MR Elements])

- When using our products, no matter what sort of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this catalog are subject to change without prior notice.
- Do not use the products beyond the specifications described in this catalog.
- This catalog explains the quality and performance of the products as individual components. Before use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.
- * Systems equipped with a protection circuit and a protection device
- * Systems equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault

(1) Precautions for use

- These products are designed and manufactured for general and standard use in general electronic equipment (e.g. AV equipment, home electric appliances, office equipment, information and communication equipment)
- These products are not intended for use in the following special conditions. Before using the products, carefully check the effects on their quality and performance, and determine whether or not they can be used.
 1. In liquid, such as water, oil, chemicals, or organic solvent
 2. In direct sunlight, outdoors, or in dust
 3. In salty air or air with a high concentration of corrosive gas, such as Cl₂, H₂S, NH₃, SO₂, or NO₂
 4. Electric Static Discharge (ESD) Environment
These components are sensitive to static electricity and can be damaged under static shock (ESD). Please take measures to avoid any of these environments.
Smaller components are more sensitive to ESD environment.
 5. Electromagnetic Environment
Avoid any environment where strong electromagnetic waves exist.
 6. In an environment where these products cause dew condensation
 7. Sealing or coating of these products or a printed circuit board on which these products are mounted, with resin or other materials
- These products generate Joule heat when energized. Carefully position these products so that their heat will not affect the other components.
- Carefully position these products so that their temperatures will not exceed the category temperature range due to the effects of neighboring heat-generating components. Do not mount or place heat-generating components or inflammables, such as vinyl-coated wires, near these products (except Thermal Cutoffs).
- Note that non-cleaning solder, halogen-based highly active flux, or water-soluble flux may deteriorate the performance or reliability of the products.
- Carefully select a flux cleaning agent for use after soldering. An unsuitable agent may deteriorate the performance or reliability. In particular, when using water or a water-soluble cleaning agent, be careful not to leave water residues. Otherwise, the insulation performance may be deteriorated.

(2) Precautions for storage

The performance of these products, including the solderability, is guaranteed for a year from the date of arrival at your company, provided that they remain packed as they were when delivered and stored at a temperature of 5 °C to 35 °C and a relative humidity of 45 % to 85 %. (Micro Chip Fuses: Guaranteed for 6 months from the date of arrival at your company)

The performance of EMI Filters is guaranteed for 6 months or a year from the outgoing inspection date indicated on the packages, provided that they are stored at a temperature of -5 °C to +40 °C and a relative humidity of 40 % to 60 %. Check the guarantee period in the specifications. The performance of Thermal Cutoffs is guaranteed for a year from the outgoing inspection date indicated on the packages, provided that they are stored at a temperature of -10 °C to +40 °C and a relative humidity of 30 % to 75 %.

Even within the above guarantee periods, do not store these products in the following conditions. Otherwise, their electrical performance and/or solderability may be deteriorated, and the packaging materials (e.g. taping materials) may be deformed or deteriorated, resulting in mounting failures.

1. In salty air or in air with a high concentration of corrosive gas, such as Cl₂, H₂S, NH₃, SO₂, or NO₂
2. In direct sunlight

<Package markings>

Package markings include the product number, quantity, and country of origin.
In principle, the country of origin should be indicated in English.