

To: TTI Inc.

Date: 29.04.2026

Dear [Name, Title, Organization]

**Product Discontinuation Notice for NTC Thermistor (Chip type) products and certain ZNR (Metal Oxide Varistor) products**

We sincerely appreciate your continued patronage and interest in our products.

This letter serves as formal notice that it has been decided to discontinue the manufacture and sale of NTC Thermistor (Chip type) products and certain ZNR (Metal Oxide Varistor) products (as defined in “Discontinued Products” below), (collectively, the “Products”).

A management decision has been made to withdraw from the business of the Products and we hereby notify you of the product discontinuation.

We would like to inform you that our final order acceptance date and final shipment date for the Products are as follows. We kindly request that you notify Panasonic Industry Europe GmbH, by the deadline specified below, on a non-binding basis, of the total quantities of the Products (including service parts) that you request to supply from October 1st, 2026 until the Final shipment date (defined below).

Please note that, if your requested total quantities exceed our supply capacity of the Products, we would like to discuss quantity adjustments separately.

We sincerely appreciate your long-term support of our Products and ask for your understanding of this decision.

**【Detail】**

**1. Discontinued Products**

- Certain ZNR (Metal Oxide Varistor) products
- NTC Thermistor (Chip type) products

\*All Panasonic Parts Numbers of the above Discontinued Products are described in the attached Discontinued Products’ Parts Numbers List.

**2. Schedule**

- Deadline for providing written notification specifying total quantities of the Products you request Panasonic Industry Europe GmbH to supply from October 1st, 2026 to March 30, 2029 (the Final shipment date as defined below): **September 30, 2026.**

You are encouraged to promptly assess your anticipated requirements to ensure adequate supply prior to discontinuation.

- Supply quantities up to September 30th, 2026, will be provided subject to existing agreements, availability, and order acceptance by Panasonic Industry Europe GmbH.

-Final order acceptance date: **March 31st, 2028**

-Final shipment date: **March 30th, 2029**

**3. Request for Submission of Confirmation Form**

We kindly request that you submit the following confirmation form to Panasonic Industry Europe GmbH within two months from the issuance date of this notice.

Note, failing to return the below form does not change the Order Schedule, outlined in Paragraph 2, nor will the Final order acceptance date be changed absent any further written communication from Panasonic Industry Europe GmbH.

**4. Additional**

All last-time-buy orders are subject to acceptance by Panasonic Industry Europe GmbH, availability of materials, supply capacity, and compliance with applicable ordering requirements under existing agreements. Orders submitted after the above Final order acceptance date will not be accepted.

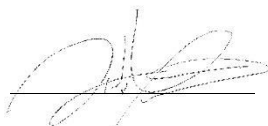
This notice expresses our intention to discontinue the Products and does not create additional contractual obligations for Panasonic Industry Europe GmbH or Panasonic Industry Co., Ltd..

Confirmation: Your reply	
Your production status : <input type="checkbox"/> in production <input type="checkbox"/> EOL (repair only)	
Signature _____	Date:
Department :	
Title :	
Name :	

Sincerely,

*Hiroki HIRAYAMA*

Hiroki Hirayama  
Business Unit Director  
Resistor & Ceramic Business Unit  
Device Solutions Business Division  
Panasonic Industry Co., Ltd.



Atsushi Yamamoto  
General Manager  
Device Solutions Business Division  
Overseas Sales Management  
Division  
Panasonic Industry Co., Ltd.



Satoshi Ogano  
Division Director  
Device Solution  
Business Management  
Panasonic Industry Europe GmbH

[Need to attach "Subject Parts Numbers List" in this letter]

To:  
Dear

**Product Discontinuation Notice for certain ZNR(Metal Oxide Varistor) products and NTC Thermistor(Chip type) products**

We sincerely appreciate your continued patronage and interest in our products.

This letter serves as formal notice that we will discontinue the manufacture and sale of certain ZNR (Metal Oxide Varistor) products and NTC Thermistor (Chip type) products (as defined in “Discontinued Products” below), (collectively, the “Products”).

This is the result of changing market environment, such as product commoditization and intensified competition with other companies including price competition. Based on this, we have made the management decision to withdraw from the business of the Products and hereby notify you of the product discontinuation.

We would like to inform you that our final order acceptance date and final shipment date for the Products are as follows. We request that you notify us, by the deadline specified below, of the total quantities of the Products (including service parts) that you request to supply from October 1st, 2026 until the Final shipment date (defined below). Please note that, if your requested total quantities exceed our supply capacity of the Products, we would like to discuss quantity adjustments separately.

We sincerely appreciate your long-term support of our Products, and would like to ask your understanding of this management decision.

**[Detail]**

**1. Discontinued Products**

- Certain ZNR (Metal Oxide Varistor) products
- NTC Thermistor (Chip type) products

Parts numbers of the subject Discontinued Products: Parts numbers as described in the attached Subject Parts Numbers List

**2. Schedule**

- Deadline for providing written notification specifying total quantities of the Products you request to supply from October 1st, 2026 to the Final shipment date: **September 30, 2026**. You are encouraged to promptly assess your anticipated requirements to ensure adequate supply prior to the discontinuation of the Products. Panasonic need to receive this notification in a timely manner.
- Supply quantities up to September 30th, 2026, will be provided based on the current order management system.
- Final order acceptance date: **March 31st, 2028**
- Final shipment date: **March 30th, 2029**

**3. Request for Submission of Confirmation Form**

We ask that you will submit the following confirmation form to us within two months from the issuance date of this notice.

4. Your all last time buy orders are subject to acceptance by Panasonic, availability of materials, supply capacity, and compliance with applicable ordering requirements under existing agreements. Orders submitted after the above Final order acceptance date will not be accepted.

Confirmation: Your reply	
Your production status : <input type="checkbox"/> in production <input type="checkbox"/> EOL (repair only)	
Signature _____	Date: _____
Department :	
Title :	
Name :	

Sincerely,

  
\_\_\_\_\_  
Kentaro Nishiwaki  
Business Unit Director  
Ceramic Business Unit  
DeviceSolutionsBusiness Division  
Panasonic Industry Co., Ltd.

  
\_\_\_\_\_  
Sadatoshi Atsumi  
Product Sales Director  
Sales Department  
Device Solutions Business Division  
Panasonic Industry Co., Ltd.

[Need to attach “Subject Parts Numbers List” in this letter]

Customer's name

**※Please convert this PPT to PDF when submitting it to customers.**

# EOL Notice for NTC Thermistor (Chip Type)

**March 2026**  
**Panasonic Industry Co., Ltd.**  
**Device Solutions Business Division**  
**Ceramic BU / Sales Department**

# Overview and Sales Status of NTC Thermistors (Chip Type)

We have long dedicated ourselves to the development, production, and sales of NTC thermistors (chip type), striving to create value for our customers. However, due to significant changes in market conditions, it has become difficult to continue the business. Therefore, we would like to inform you of our plan to discontinue production and sales of this product.

- 1994- Start of sales for temperature sensing and temperature compensation functions
- 2005- High-precision requirement  
Improvement in tolerance from  $\pm 5\%$  to  $\pm 1\%$
- 2009- Smartphone market expanded. Requirement shifted to tight tol. ( $\pm 1\%$ ) and smaller sizes
- 2017- Market expansion resulted increased competition and price declines.

Expanded product range to high precision and small size



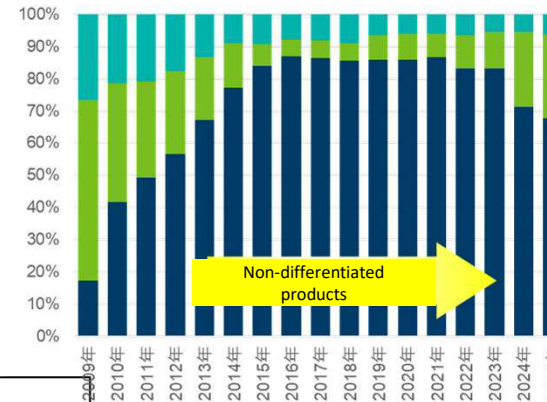
Entry of new overseas manufacturers  
Production of small and specialized parts has stagnated

Increased commoditization of products  
Reduced competitiveness  
as manufacturing differentiation becomes harder.

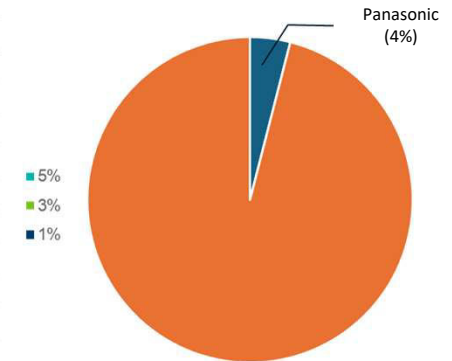
The market has shifted toward tight tol. product  
Declined in global market share.  
Profitability and business continuity became difficult.

Production History by Resistance Tolerance (Panasonic)

Production Ratio by Resistance Tolerance (Quantity)



Global Market Share (2024)



**Production and sales will be in EOL phase in March 2026 onward**

# EOL Notice for NTC Thermistor (Chip Type)

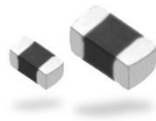
Part numbers beginning with ERTJ will be EOL

Product	NTC Thermistor (Chip Type)
Part Number	1 : NTC Thermistor 2 : NTC Thermistor for Automotive
Schedule	①Deadline for notifying the total requested supply quantity (Total supply quantity from Oct.1, 2026, until the final shipment date) : September 30, 2026 ②Final Order Acceptance Date : March 31, 2028 ③Final Shipment Date : March 30, 2029
Remarks	All such custom version part numbers will follow the same EOL schedule

We sincerely appreciate your understanding and cooperation.

# EOL Notice for NTC Thermistor (Chip Type)

【Product】 NTC Thermistors (Chip Type)

Type / Series		Part Number
SMD Type		ERTJ□□□□□

# **Panasonic** INDUSTRY

Parts
ERTJ0ER103J
ERTJ0EV474J
ERTJ0EA101H
ERTJ0EA470J
ERTJ0ER103J
ERTJ1VA470H
ERTJ1VG103FA
ERTJ1VR153J
ERTJ1VS104JA