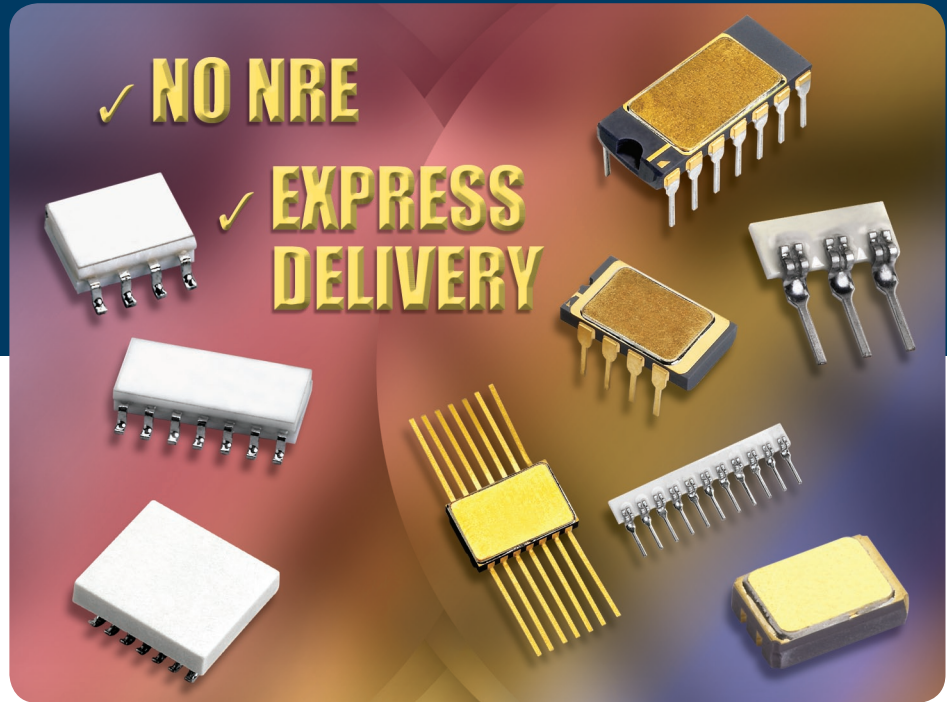




# THIN FILM PRECISION RESISTOR NETWORKS

Quick-Net® Prototypes



## Quick-Net® Thin Film Precision Resistor Networks

Industry's Shortest Delivery for Custom Resistor Prototypes

### KEY BENEFITS

- Fast delivery (2 weeks standard, 72 hour express)
- No NRE
- Custom resistor values in standard formats

### APPLICATIONS

- Instrumentation amplifiers
- Precision voltage dividers
- Low noise instrumentation

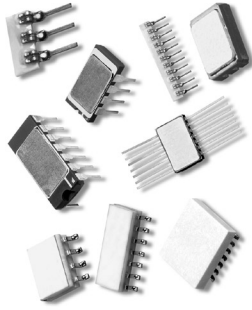
Datasheet is available on our web site at [www.vishay.com](http://www.vishay.com)  
for Quick-Net® Prototypes - <http://www.vishay.com/doc?60078>



# Quick-Net® Prototypes

## Vishay Thin Film

### Guidelines



#### FEATURES

- Lead (Pb)-Free available
- Custom Thin Film networks in 2 weeks
- No NRE charges typical
- Available in both moisture resistant Tamalox Nitride and Tamelox® resistor film
- 72 hour express on some formats



**RoHS\***  
COMPLIANT

#### TYPICAL PERFORMANCE

|     | ABS  | TRACKING |
|-----|------|----------|
| TCR | 25   | 5        |
| TOL | 0.05 | 0.02     |

All these packages are standard. Other packages available on request.

Our superior engineering capabilities enable us to provide the industry's shortest delivery for prototypes. Let Vishay Quick-Net speed your prototypes to qualification. Quick-Net high quality networks are available in a variety of package formats, including Single-In-Line (SIP), hermetic DIP, flatpack and leadless chip carriers. The networks are available with either Tamalox Nitride or Tamelox® Resistor Film.

#### YOUR SCHEMATIC



| TEST                        | SPECIFICATIONS                        | CONDITIONS                     |
|-----------------------------|---------------------------------------|--------------------------------|
| MATERIAL                    | TAMELOX®                              |                                |
| Resistance Range            | 100 to 55KΩ/200 to 120KΩ/400 to 250KΩ | Based on film sheet resistance |
| TCR:                        | ± 5ppm/°C                             |                                |
| Tracking                    | ± 25ppm/°C                            |                                |
| Absolute                    | ± 0.1% to ± 0.01%                     | - 55°C to + 125°C              |
| Ratio                       | ± 1% to ± 0.1%                        | Values over 1KΩ                |
| Tolerance:                  | Absolute                              |                                |
| Power Rating:               | 25mW/element                          |                                |
| Operating Temperature Range | - 55°C to + 125°C                     |                                |

\*Consult factory for specifications.

#### ORDERING INFORMATION

Copy, fill out and fax the form on the following page to send your prototype specifications to the Quick-Net team.  
Or call (716) 283-4025 to discuss your requirements with a member of the Quick-Net team.

\* Pb containing terminations are not RoHS compliant, exemptions may apply

- SALES
- ISRAEL: foisales.israel@vishay.com
  - FRANCE/SWITZERLAND/SOUTHERN EUROPE: foisales.eu@south@vishay.com
  - AMERICAS: foisales.usa@vishay.com
  - ASIA/JAPAN: foisales.asia@vishay.com
  - UK/HOLLAND/SCANDINAVIA: foisales.eu@north@vishay.com
  - GERMANY/CZECH REPUBLIC/AUSTRIA: foisales.eucentral@vishay.com

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For technical questions, contact thin-film@vishay.com

## Fax Form – Custom Thin Film Networks in 2 Weeks with no NRE Charges

For your Quick-Net Prototype, fill out this form and FAX to Vishay at (716) 283-5932, or call and talk to a Vishay engineer at (716) 283-4025.

DATE: \_\_\_\_\_ FROM: \_\_\_\_\_

NUMBER OF PAGES: \_\_\_\_\_

TO: Vishay Quick-Net Team  
2160 Liberty Dr.  
Niagara Falls, NY 14304 USA

PHONE: \_\_\_\_\_

FAX NO.: (716) 283-5932

| YOUR PART NUMBER:                         | VISHAY P.I.N.       | QUANTITY REQUIRED        |
|---|---------------------|--------------------------|
| Package Type                              | Your Resistor Count | Your Package Choice      |
| Package                                   |                     | Quantity Required        |
| Single-In-Line (3-10 PIN)*                | 2 thru 9            | <input type="checkbox"/> |
| 8 PIN Hermetic DIP                        | 10                  | <input type="checkbox"/> |
| 14 PIN Hermetic DIP                       | 12                  | <input type="checkbox"/> |
| 16 PIN Hermetic DIP                       | 15                  | <input type="checkbox"/> |
| 18 PIN Hermetic DIP (20 PIN also avail.)  | 12                  | <input type="checkbox"/> |
| 14 Lead Flatpack 1/4 x 3/8                | 8                   | <input type="checkbox"/> |
| 14 Lead Flatpack 3/8 x 3/8                | 12                  | <input type="checkbox"/> |
| 16 Lead Flatpack 1/4 x 3/8                | 12                  | <input type="checkbox"/> |
| 16 Lead Flatpack 3/8 x 3/8                | 14                  | <input type="checkbox"/> |
| 16, 20, 24 Terminal Leadless Chip Carrier | 8, 10, 12           | <input type="checkbox"/> |
| 8, 14, 16 PIN Lead Gull Wing SMT*         | 4, 7, 8             | <input type="checkbox"/> |

\*72 Hour Express Service Available, Consult Factory

\*\*Resistance Range may be expanded by adding resistors in series, however the number of resistors per package will decrease.

SCHEMATIC: \_\_\_\_\_

Hand draw your schematic here or attach your drawing. Identify the reference resistor and ohmic value of each.

REFERENCE RESISTOR IS: \_\_\_\_\_

TO: \_\_\_\_\_

SPECIFICATIONS: Quick-Net's Best

Best Ratio Tolerance Available (over 1K Ω) 0.01%

Best Absolute Tolerance 0.1%

Best TCR Tracking (-55°C to +125°C) ±5PPM/°C

Maximum Wattage: 25 mW/element

Your Requirements \_\_\_\_\_

Revision 23-Nov-05