

Series 1776-X

Input Voltage Dividers for multimeters and other instruments

A Miba Group Company

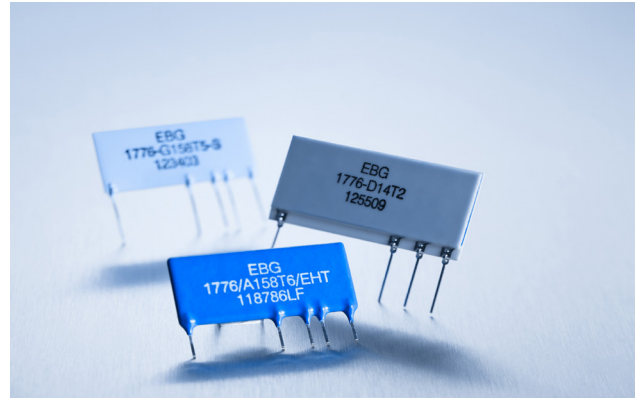
1/1

EBG Resistors offers a family of voltage dividers for a variety of applications, including digital multimeters, multi-range instrumentation and other range-switching devices. This line of products uses the special EBG METOXFILM.

Many special combinations of ratios, absolute & relative tolerances and absolute temperature coefficients of resistance are available. For special requirements, please contact us.

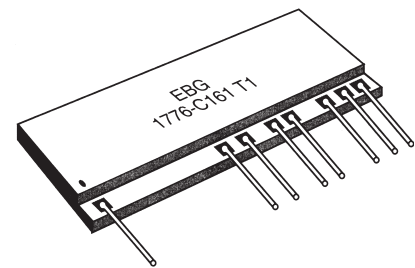
Features

- Compact precision resistor networks
- Easy-to-install package
- Non-Inductive design
- ROHS compliant



Technical Specifications

| | |
|-----------------------------------------|-------------------------------------------|
| Resistance value | 900 Ω to 10M Ω (see model specifications) |
| Ratio resistance tolerance | ±0.05 % to 0.25 % |
| Absolute resistance tolerance | ±0.1 % to 0.5 % |
| Ratio temperature coefficient | ±10 ppm/°C to 50 ppm/°C |
| Absolute temperature coefficient | ±25 ppm/°C to 50 ppm/°C |
| Voltage coefficient | typical -0,05 ppm/V |
| Storage temperature | -55°C to +165°C |
| Load life (ratio stability) | < 0.04 % |
| Shelf life (ratio stability) | < 0.02 % (six months) |
| High stability under load | < 0.2 % |
| Number of decades | 3 to 6 |
| Weight | ask for details |



Model Specifications

| Model no. | Resistance values | | | | | Figure | Voltage rating | Absolute tol. % | Ratio tol. % | Absol. TC ppm/°C | Ratio TC ppm/°C | Vol. coef. ratio ppm/V | Ratio stability % change in ratio | | | C |
|-----------|-------------------|--------|---------|--------|---------|--------|----------------|-----------------|--------------|------------------|-----------------|------------------------|-----------------------------------|------------|--------------|---|
| | R1 Ω | R2 Ω | R3 Ω | R4 Ω | R5 Ω | | | | | | | | Load life | Shelf life | Over-Voltage | |
| B169 T3-X | 9M | 900K | 90K | 9K | 900 | 1 | 1200 | 0.1 | 0.1 | 30 | 10 | 0.1 | 0.02 | 0.01 | 0.01 | C |
| B168 T3-X | 9M | 900K | 90K | 9K | 1K | 1 | 1200 | 0.1 | 0.1 | 30 | 10 | 0.1 | 0.02 | 0.01 | 0.01 | C |
| E167 T1-X | 9M | 900K | 90K | 9K | 900 | 2 | 1200 | 0.25 | 0.25 | 50 | 50 | 0.5 | 0.04 | 0.02 | 0.04 | C |
| B167 T1-X | 9M | 900K | 90K | 9K | 900 | 2 | 1200 | 0.1 | 0.1 | 50 | 50 | 0.5 | 0.04 | 0.02 | 0.04 | C |
| E166 T1-X | 9M | 900K | 90K | 9K | 1K | 2 | 1200 | 0.25 | 0.25 | 50 | 50 | 0.5 | 0.04 | 0.02 | 0.04 | C |
| B166 T1-X | 9M | 900K | 90K | 9K | 1K | 2 | 1200 | 0.1 | 0.1 | 50 | 50 | 0.5 | 0.04 | 0.02 | 0.04 | C |
| E16 T1-X | 9M | 900K | 90K | 9K | 900 | 3 | 1200 | 0.25 | 0.25 | 50 | 50 | 0.3 | 0.04 | 0.02 | 0.04 | C |
| B16 T1-X | 9M | 900K | 90K | 9K | 900 | 3 | 1200 | 0.1 | 0.1 | 50 | 50 | 0.2 | 0.02 | 0.01 | 0.02 | C |
| A16 T1-X | 9M | 900K | 90K | 9K | 900 | 3 | 1200 | 0.1 | 0.05 | 50 | 50 | 0.2 | 0.02 | 0.01 | 0.02 | C |
| E161 T1-X | 9M | 900K | 90K | 9K | 1K | 3 | 1200 | 0.25 | 0.25 | 50 | 50 | 0.3 | 0.04 | 0.02 | 0.04 | C |
| D161 T1-X | 9M | 900K | 90K | 9K | 1K | 3 | 1200 | 0.25 | 0.1 | 50 | 50 | 0.2 | 0.02 | 0.01 | 0.02 | C |
| C161 T1-X | 9M | 900K | 90K | 9K | 1K | 3 | 1200 | 0.25 | 0.05 | 50 | 50 | 0.2 | 0.02 | 0.01 | 0.02 | C |
| F37 T3-X | 9M | 900K | 90K | 10K | N/A | 4 | 1200 | +0-0.5 | 0.1 | 30 | 10 | 0.02 | 0.02 | 0.01 | 0.01 | |
| F379 T3-X | 9M | 900K | 90K | 10K | N/A | 5 | 1200 | +0-0.5 | 0.1 | 30 | 10 | 0.02 | 0.02 | 0.01 | 0.01 | |
| C15 T3-X | 9M | 900K | 90K | 10K | N/A | 6 | 1200 | 0.25 | 0.05 | 30 | 10 | 0.02 | 0.02 | 0.01 | 0.01 | |
| D15 T3-X | 9M | 900K | 90K | 10K | N/A | 6 | 1200 | 0.25 | 0.1 | 30 | 10 | 0.02 | 0.02 | 0.01 | 0.01 | |
| D14 T2-X | 9.9M | 90K | 10K | N/A | N/A | 7 | 1200 | 0.25 | 0.1 | 30 | 25 | 0.2 | 0.02 | 0.01 | 0.02 | C |
| D14 T3-X | 9.9M | 90K | 10K | N/A | N/A | 7 | 1200 | 0.25 | 0.1 | 30 | 10 | 0.02 | 0.02 | 0.01 | 0.01 | C |
| E39 T3-X | 10M | 1.111M | 101.01K | 10.01K | 1.0001K | 8 | 1200 | 0.25 | 0.25 | 30 | 10 | 0.1 | 0.02 | 0.01 | 0.01 | C |
| B39 T3-X | 10M | 1.111M | 101.01K | 10.01K | 1.0001K | 8 | 1200 | 0.1 | 0.1 | 30 | 10 | 0.1 | 0.02 | 0.01 | 0.01 | C |
| G39 T1-X | 10M | 1.111M | 101.01K | 10.01K | 1.0001K | 8 | 1200 | 0.5 | 0.5 | 50 | 50 | 0.5 | 0.04 | 0.02 | 0.04 | C |
| E39 T1-X | 10M | 1.111M | 101.01K | 10.01K | 1.0001K | 8 | 1200 | 0.25 | 0.25 | 50 | 50 | 0.5 | 0.04 | 0.02 | 0.04 | C |
| E159 T5-X | 900K | 90K | 9K | 900 | N/A | 9 | 750 | 0.25 | 0.25 | 25 | 25 | 0.4 | 0.02 | 0.01 | 0.02 | C |
| B159 T6-X | 900K | 90K | 9K | 900 | N/A | 9 | 750 | 0.1 | 0.1 | 25 | 15 | 0.3 | 0.02 | 0.01 | 0.02 | C |
| A159 T6-X | 900K | 90K | 9K | 900 | N/A | 9 | 750 | 0.1 | 0.05 | 25 | 15 | 0.3 | 0.02 | 0.01 | 0.02 | C |
| G158 T5-X | 900K | 90K | 9K | 1K | N/A | 9 | 750 | 0.25 | 0.25 | 25 | 25 | 0.4 | 0.02 | 0.01 | 0.02 | C |
| B158 T6-X | 900K | 90K | 9K | 1K | N/A | 9 | 750 | 0.1 | 0.1 | 25 | 15 | 0.3 | 0.02 | 0.01 | 0.02 | C |
| A158 T6-X | 900K | 90K | 9K | 1K | N/A | 9 | 750 | 0.1 | 0.05 | 25 | 15 | 0.3 | 0.02 | 0.01 | 0.02 | C |

for „X“ in model no., please select (surface finish): **B** - printed silicone, **E** - epoxy encapsulation, **C** - ceramic cover plate (if available), **S** - silicone conformal

The above spec. sheet features our standard products. For further options please contact our local EBG representative or contact us directly.