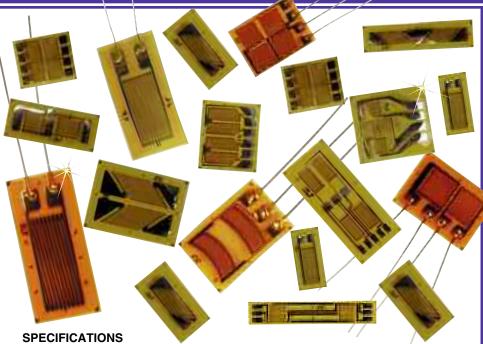
TRANSDUCER QUALITY STRAIN GAGE NEW SPECIFICATION CHART



- Custom Strain Gages Available
- Uniform Carrier **Matrix Dimensions**
- Optimum Backing **Thickness Tolerance**
- ✓ Choice of Creep Code Available Upon Request
- ✓ Tighter Resistance Tolerance
- Available With Ribbon **Leads or Solder Pads**
- ✓ Temperature **Characteristics Matched** to Steel or Aluminum
- ✓ Available Open Face or With Encapsulation

OMEGA® offers a full line of transducer quality strain gages. These high quality encapsulated foil strain gages are available in many configurations. They are commonly used for OEM transducer applications where transducers with exacting specifications must be produced. Transducer quality strain gages are designed with optimum backing thickness tolerance. Creep variations from one strain gage to another are kept to a minimum. In batch transducer production, this will keep bridge output differences between strain gage installations to a minimum. Choice of creep codes is available by custom order. Transducer quality strain gages have very uniform matrix or carrier dimensions. These tight trim dimensions allow for the carrier edge to be used for strain gage alignment in batch transducer production. Consistent strain gage placement will keep bridge output differences among the transducers to a minimum. Transducer quality strain gages will have a tighter resistance tolerance compared with the precision SGD series strain gages. The resistance tolerance depends on the nominal resistance of the gage, and the number of grid lines in the pattern. Usually the lower the nominal resistance and the fewer the grid lines, the tighter the resistance tolerance will be. Resistance tolerance is tighter for strain gages without encapsulation, available by custom order. The resistance tolerance provided in the table is wide, because the values tend to vary with the strain gage nominal resistance specification, encapsulation and pattern. Tolerance for gage type is available upon request.



/ /
SGT SERIES
Constantan foil 5 microns thick
Polyimide
20 microns
25 microns
Solder pads or ribbon leads, tinned copper flat wire 30 L x 0.1 D x 0.3 W (1.2 x 0.004 x 0.012); other wire types available upon request
Stated in "To Order" box
$\pm 0.15\%$ to $\pm 0.5\%$ depending on gage spec
2.0 ±5%
1.00%
23°C (73°F)
-75 to 95°C (-100 to 200°F)
-75 to 95°C (-100 to 200°F)
11 ppm/°C (6.1 ppm/°F)
23 ppm/°C (12.8 ppm/°F)
±20 ppm/°C (11.1 ppm/°F)
-5 to 120°C (5 to 248°F)
2 ppm/°C (1.0 ppm/°F)
3% or 30,000 microstrain
Negligible
>10,000,000 cycles
3 mm (%")

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