

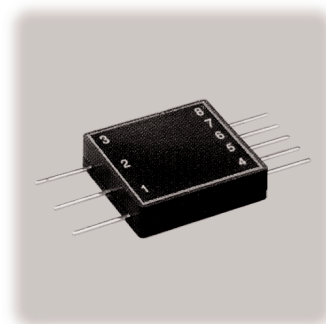
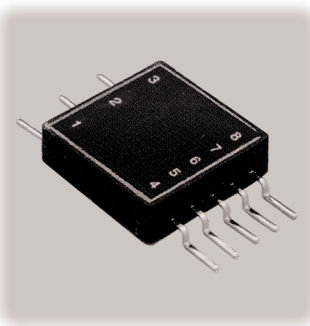
# MIL-temperature-range surface mount low profile MIL-PRF-21038 Interface Transformers (-55° to +130° C)

These non-QPL interface transformers conform to all electrical and physical parameters of MIL-PRF-21038/27 and provide performance as required over -55° to +130° C. Built and tested in ISO 9002 approved facilities.

- for use in MIL-STD-1553 applications
- low profile, 0.155 in. height
- dual ratio in a single package
- performance to MIL-PRF-21038/27 requirements
- built in ISO 9002 facility
- -55° to +130° C

## APPLICABLE SPECIFICATIONS

- MIL-STD-1553B
- MIL-STD-202
- MIL-T-10727
- MIL-PRF-21038
- ISO 9002



## SUMMARY PERFORMANCE SPECIFICATIONS

|                                      |                       |
|--------------------------------------|-----------------------|
| Impedance.....                       | see table             |
| Droop.....                           | ≤ 20%                 |
| Overshoot.....                       | ± 1V max              |
| Common mode rejection (CMR).....     | ≥ 45 dB               |
| Frequency range (no load).....       | 75 kHz to 1MHz        |
| Operating temperature range.....     | -55° to +130°C        |
| Weight.....                          | ≤ 5 grams             |
| Insulation resistance (min).....     | 10K megohms @ 250 Vdc |
| Dielectric withstanding voltage..... | 100 Vrms              |



## CHARACTERISTICS

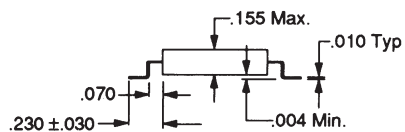
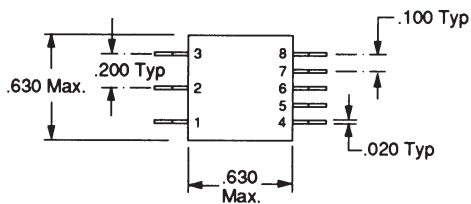
| PART NO.               | TERMINALS          | RATIO ( $\pm 3\%$ )      | RDC<br>(ohms)<br>MAX.  | IMPEDANCE<br>(ohms)<br>MIN. |
|------------------------|--------------------|--------------------------|------------------------|-----------------------------|
| GL1553-1<br>FL1553-1   | 1-3:4-8<br>1-3:5-7 | 1CT:1CT<br>1CT:1.707CT   | 1-3 = 3.0<br>4-8 = 3.0 | (1-3)<br>4,000              |
| GL1553-2<br>FL1553-2   | 1-3:4-8<br>1-3:5-7 | 1.4CT:1CT<br>2CT:1CT     | 1-3 = 3.5<br>4-8 = 3.0 | (1-3)<br>7,200              |
| GL1553-3<br>FL1553-3   | 1-3:4-8<br>1-3:5-7 | 1.25CT:1CT<br>1.66CT:1CT | 1-3 = 3.2<br>4-8 = 3.0 | (1-3)<br>4,000              |
| GL1553-5<br>FL1553-5   | 1-3:4-8<br>1-3:5-7 | 1CT:2.12CT<br>1CT:1.5CT  | 1-3 = 1.0<br>4-8 = 3.5 | (4-8)<br>4,000              |
| GL1553-40<br>FL1553-40 | 1-3:4-8<br>1-3:5-7 | 1CT:2.5CT<br>1CT:1.75CT  | 1-3 = 1.0<br>4-8 = 3.5 | (4-8)<br>4,000              |
| GL1553-45<br>FL1553-45 | 1-3:4-8<br>1-3:5-7 | 1CT:2.5CT<br>1CT:1.79CT  | 1-3 = 1.0<br>4-8 = 3.5 | (4-8)<br>4,000              |

\*Designed for transceivers utilizing a single supply voltage (+5V).

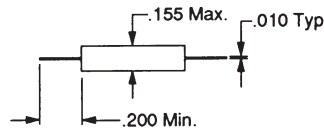
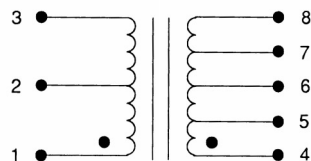
## SCHEMATICS AND DIMENSIONS

### Notes:

1. All dimensions are in inches.
2. Tolerances: .xx =  $\pm .008$
3. All specifications and dimensions are subject to change without notice.



GL1553-X



FL1553-X