

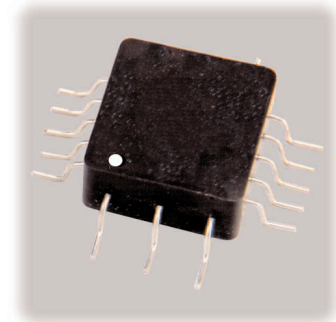
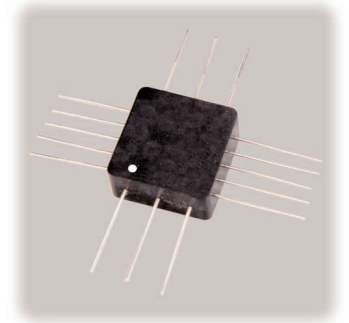
# MIL-temperature-range surface mount dual stacked MIL-PRF-21038 Interface Transformers (-55° to +130° C)

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
- two dual ratio transformers in a single package
- performance to MIL-PRF-21038/27 requirements
- built in ISO 9002 facility
- -55° to +130° C operating temperature

## 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

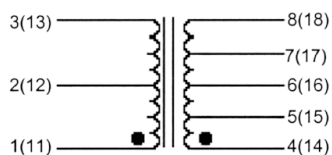


## CHARACTERISTICS

PART NO.	TERMINALS	RATIO (±3%)	RDC (ohms) MAX	IMPEDANCE (ohms) MIN
SGQ1553-1 SFQ1553-1	1-3:4-8 (11-13:14-18) 1-3:5-7 (11-13:15-17)	1CT:1CT 1.41CT:1CT	1-3 (11-13) 3.5 4-8 (14-18) 3.0	(1-3 & 11-13) 4,000
SGQ1553-2 SFQ1553-2	1-3:4-8 (11-13:14-18) 1-3:5-7 (11-13:15-17)	1.4CT:1CT 2CT:1CT	1-3 (11-13) 3.0 4-8 (14-18) 3.0	(1-3 & 11-13) 7,200
SGQ1553-3 SFQ1553-3	1-3:4-8 (11-13:14-18) 1-3:5-7 (11-13:15-17)	1.25CT:1CT 1.66CT:1CT	1-3 (11-13) 3.2 4-8 (14-18) 3.0	(1-3 & 11-13) 4,000
SGQ1553-5* SFQ1553-5*	1-3:4-8 (11-13:14-18) 1-3:5-7 (11-13:15-17)	1CT:2.12CT 1CT:1.5CT	1-3 (11-13) 1.0 4-8 (14-18) 3.5	(4-8 & 14-18) 4,000
SGQ1553-45* SFQ1553-45*	1-3:4-8 (11-13:14-18) 1-3:5-7 (11-13:15-17)	1CT:2.5CT 1CT:1.79CT	1-3 (11-13) 1.0 4-8 (14-18) 3.5	(4-8 & 14-18) 4,000

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

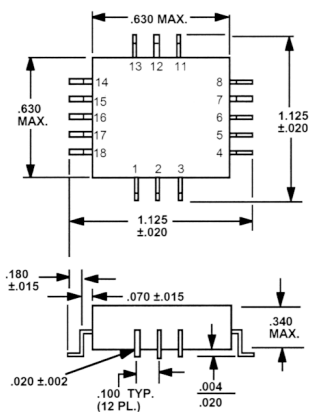
## SCHEMATICS AND DIMENSIONS



### Notes:

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

### SGQ1553-X



### SFQ1553-X

