

## Dual ratio surface mount, low profile MIL-PRF-21038 Interface Transformers

These transformers conform to all electrical and physical parameters of MIL-PRF-21038/27. Operating temperature -55° to +125° C.

- for use in MIL-STD-1553 applications
- dual ratio, dual interface (see schematic)
- low profile, 0.155 in. height
- dual ratio in a single package
- performance to MIL-PRF-21038/27 requirements
- two packages: gull wing and flat pack

### APPLICABLE SPECIFICATIONS

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

### SUMMARY PERFORMANCE SPECIFICATIONS

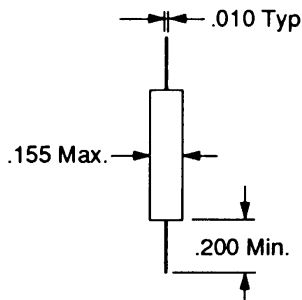
Impedance.....	see table, next page
Drop.....	≤ 20%
Overshoot.....	± 1V max
Common mode rejection (CMR).....	≥ 45 dB
Frequency range (no load).....	75 kHz to 1MHz
Operating temperature range.....	-55° to +125°C
Weight.....	≤ 5 grams
Insulation resistance (min).....	10K megohms @ 250 Vdc
Dielectric withstanding voltage.....	100 Vrms

CHARACTERISTICS

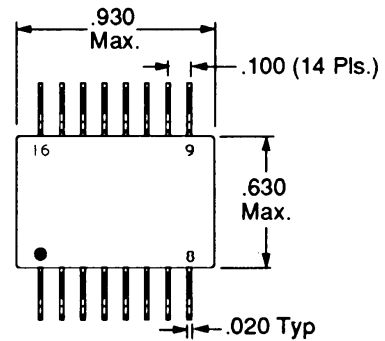
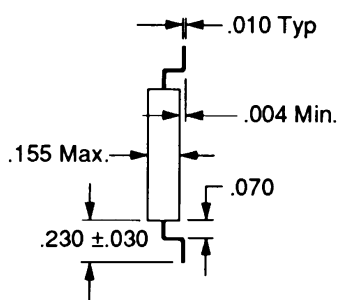
Part Number	Terminals	Ratio	RDC (ohms) max.	Impedance (ohms) min.	Package
HYDFL1553-(45)*	1-3:16-13 5-7:12-9	1CT:2.5CT	1-3,5-7 = 1.0 16-13, 12-9 = 3.5	(16-13, 12-9) 4,000	flat pack
	1-3:15-14 5-7:11-10	1CT:1.79CT			
HYDGL1553-(45)*	1-3:16-13 5-7:12-9	1CT:2.5CT	1-3,5-7 = 1.0 16-13, 12-9 = 3.5	(16-13, 12-9) 4,000	gull wing
	1-3:15-14 5-7:11-10	1CT:1.79CT			

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

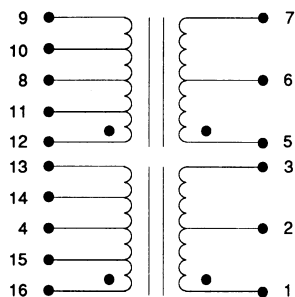
HYDFL1553-45



HYDGL1553-45



Schematic: HYDFL1553-45 and HYDGL1553-45



Notes:

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