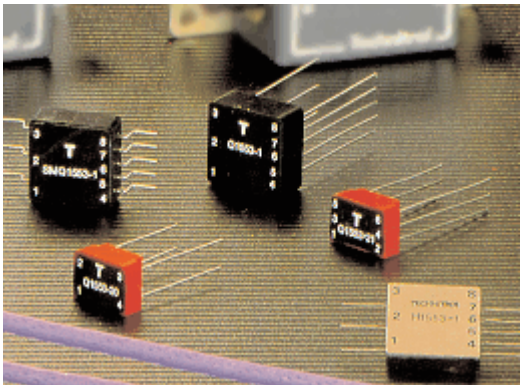
Pulse
A TECHNITROL COMPANY

SPECIALTY
COMPONENTS



non-QPL MIL-STD-1553 INTERFACE TRANSFORMERS

Pulse Specialty Components
Two Pearl Buck Court
Bristol, PA 19007-6812
Tel 215-781-6400 ■ Fax 215-781-6403
www.pulsespecialty.com

For QPL pulse transformers....

In addition to the non-QPL transformers described in this catalog, Pulse Specialty Components offers many transformer models qualified for QPL/military applications. These include:

- surface-mount or through-the-board
- single- or dual-ratio

For more information, ask for our catalog entitled
"QPL MIL-STD-1553 INTERFACE TRANSFORMERS "

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As part of Pulse, Specialty Components has access to offshore manufacturing, state-of-the-art packaging technology and worldwide purchasing power to provide extremely cost-effective products for customers. Many low-power pulse transformer products have been developed in response to the Perry Initiative and its COTs mandate.

The products shown on the next page and described in this catalog have performance and electrical characteristics compliant with MIL-PRF-21038/27 but have been tailored in response to the demands of today's marketplace....

- COTs models for reduced-requirement military applications (non-QPL) and reduced cost
- Low profile for reduced board-stacking height
- Single- ratio and dual-ratio
- Single interface and dual interface
- Vertically stacked dual interface
- 0-70°C or -40 to +85°C or -55 to +125°C
- Hermetically sealed for extreme environments

Browse the next page to find and select the product that meets your non-QPL requirements. Request our catalog on QPL MIL-PRF-21038 transformers for applictions calling for QPL components.

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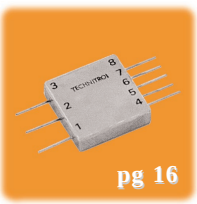
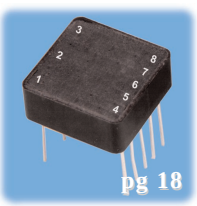
Contents

Hermetically Sealed



- single interface
- dual ratio
- surface-mount flat pack

Value Series -- COTS



- standard profile
- dual ratio
- through the board

QPL COTS The package shown here as "Value Series COTS" is also available fully qualified to MIL-PRF-21038/27 requirements.

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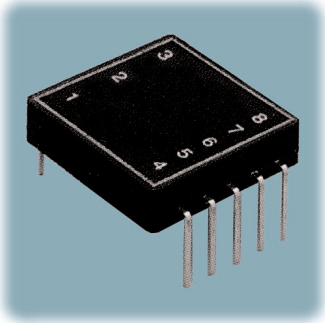
Through the board low profile MIL-PRF-21038 Interface Transformers



These non-QPL interface transformers are built and tested in ISO 9002 approved facilities. They conform to all electrical and physical parameters of MIL-PRF-21038/27. Choose one of three operating temperature ranges including 0° to +70° C, -40° to +85° C, or -55° to +125° C.

- dual ratio, single interface (see schematic)
- through the board package
- for use in MIL-STD-1553 applications
- low profile, 0.155 in. height
- performance to MIL-PRF-21038/27 requirements
- built in ISO 9002 facility

operating temp.	prefix
0° to 70°C	TLC
-40° to +85°C	TLN
-55° to +125°C	TL

APPLICABLE SPECIFICATIONS

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

SUMMARY PERFORMANCE SPECIFICATIONS

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

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CHARACTERISTICS

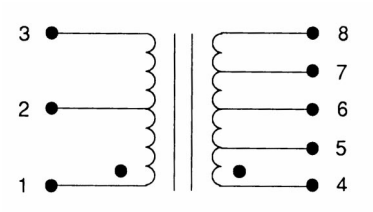
- low profile
- dual ratio
- through the board

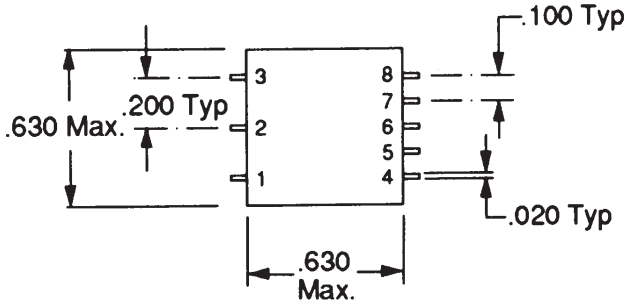
PART NO.	TERMINALS	RATIO (±3%)	RDC (ohms) MAX.	IMPEDANCE (ohms) MIN.
(XXX)1553-1 [1]	1-3:4-8 1-3:5-7	1CT:1CT 1CT:.707CT	1-3 = 3.0 4-8 = 3.0	(1-3) 4,000
(XXX)1553-2	1-3:4-8 1-3:5-7	1.4CT:1CT 2CT:1CT	1-3 = 3.5 4-8 = 3.0	(1-3) 7,200
(XXX)1553-3	1-3:4-8 1-3:5-7	1.25CT:1CT 1.66CT:1CT	1-3 = 3.2 4-8 = 3.0	(1-3) 4,000
(XXX)1553-5 [2]	1-3:4-8 1-3:5-7	1CT:2.12CT 1CT:1.5CT	1-3 = 1.0 4-8 = 3.5	(4-8) 4,000
(XXX)1553-45 [2]	1-3:4-8 1-3:5-7	1CT:2.5CT 1CT:1.79CT	1-3 = 1.0 4-8 = 3.5	(4-8) 4,000

[1] **Refer to prefix table (right) to select temperature range.**

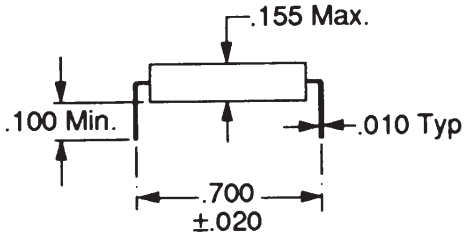
[2] **Designed for transceivers utilizing a single supply voltage (+5V).**

operating temp.	prefix
0° to 70°C	TLC
-40° to +85°C	TLN
-55° to +125°C	TL





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



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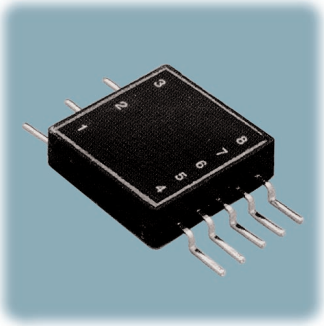
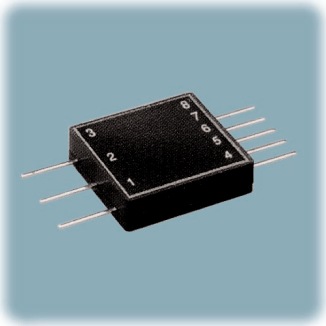
Surface mount low profile MIL-PRF-21038 Interface Transformers

These non-QPL interface transformers are built and tested in ISO 9002 approved facilities. They conform to all electrical and physical parameters of MIL-PRF-21038/27. Choose one of three operating temperature ranges including 0° to +70° C, -40° to +85° C, or -55° to +125° C.



gull wing package



flat pack

- dual ratio, single interface (see schematic)
- surface mount; gull wing or flat pack
- for use in MIL-STD-1553 applications
- low profile, 0.155 in. height
- performance to MIL-PRF-21038/27 requirements
- built in ISO 9002 facility

operating temp.	gull wing package	flat pack
0° to 70°C	GLC	FLC
-40° to +85°C	GLN	FLN
-55° to +125°C	GL	FL

APPLICABLE SPECIFICATIONS

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

SUMMARY PERFORMANCE SPECIFICATIONS

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

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CHARACTERISTICS

- low profile
- dual ratio
- surface-mount

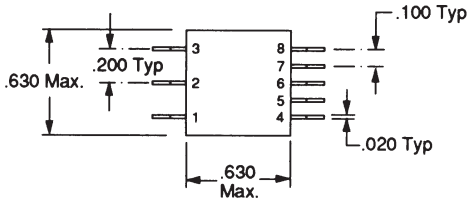
PART NO.	TERMINALS	RATIO (±3%)	RDC (ohms) MAX.	IMPEDANCE (ohms) MIN.
(XXX1553-1) [1]	1-3:4-8 1-3:5-7	1CT:1CT 1CT:.707CT	1-3 = 3.0 4-8 = 3.0	(1-3) 4,000
(XXX1553-2)	1-3:4-8 1-3:5-7	1.4CT:1CT 2CT:1CT	1-3 = 3.5 4-8 = 3.0	(1-3) 7,200
(XXX1553-3)	1-3:4-8 1-3:5-7	1.25CT:1CT 1.66CT:1CT	1-3 = 3.2 4-8 = 3.0	(1-3) 4,000
(XXX1553-5) [2]	1-3:4-8 1-3:5-7	1CT:2.12CT 1CT:1.5CT	1-3 = 1.0 4-8 = 3.5	(4-8) 4,000
(XXX1553-45) [2]	1-3:4-8 1-3:5-7	1CT:2.5CT 1CT:1.79CT	1-3 = 1.0 4-8 = 3.5	(4-8) 4,000

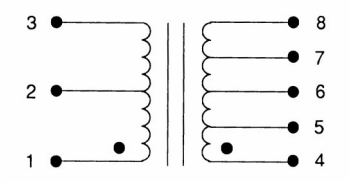
[1] **Refer to prefix table (below) to select temperature range and package.**

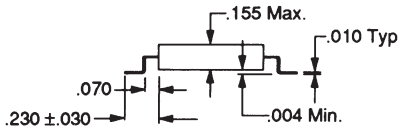
[2] **Designed for transceivers utilizing a single supply voltage (+5V).**

operating temp.	gull wing package	flat pack
0° to 70°C	GLC	FLC
-40° to +85°C	GLN	FLN
-55° to +125°C	GL	FL

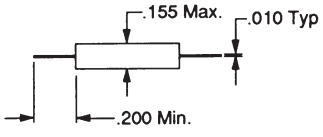
Notes:
1. All dimensions are in inches.
2. Tolerances: .xx = +.008
3. All specifications and dimensions are subject to change without notice.







GL(X)1553-(X)



FL(X)1553-(X)

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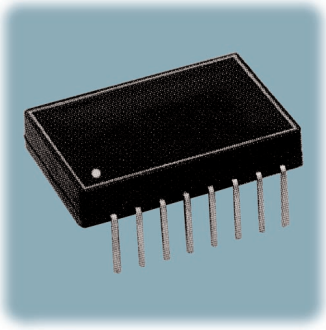
Through the board dual low profile MIL-PRF-21038 Interface Transformers



These non-QPL interface transformers are built and tested in ISO 9002 approved facilities. They conform to all electrical and physical parameters of MIL-PRF-21038/27. Choose one of three operating temperature ranges, including 0° to +70° C, -40° to +85° C, or -55° to +125° C.

- dual ratio, dual interface (see schematic)
- through the board package
- for use in MIL-STD-1553 applications
- low profile, 0.155 in. height
- performance to MIL-PRF-21038/27 requirements
- built in ISO 9002 facility

operating temp.	prefix
0° to 70°C	DTLC
-40° to +85°C	DTLN
-55° to +125°C	DTL

APPLICABLE SPECIFICATIONS

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

SUMMARY PERFORMANCE SPECIFICATIONS

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

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CHARACTERISTICS

- dual interface
- low profile
- dual ratio
- through the board

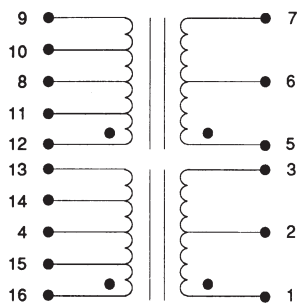
PART NO.	TERMINALS	RATIO (±3%)	RDC (ohms) MAX.	IMPEDANCE (ohms) MI
(XXXX)1553-1 [1]	1-3:16-13 5-7:12-9	1CT:1CT	1-3, 5-7 = 3.0 16-13, 12-9 = 3.0	(1-3, 5-7) 4,000
	1-3:15-14 5-7:11-10	1CT:.707CT		
(XXXX)1553-2	1-3:16-13 5-7:12-9	1.4CT:1CT	1-3, 5-7 = 3.5 16-13, 12-9 = 3.0	(1-3, 5-7) 7,200
	1-3:15-14 5-7:11-10	2CT:1CT		
(XXXX)1553-3	1-3:16-13 5-7:12-9	1.25CT:1CT	1-3, 5-7 = 3.2 16-13, 12-9 = 3.0	(1-3, 5-7) 4,000
	1-3:15-14 5-7:11-10	1.66CT:1CT		
(XXXX)1553-5 [2]	1-3:16-13 5-7:12-9	1CT:2.12CT	1-3, 5-7 = 1.0 16-13, 12-9 = 3.5	(16-13, 12-9) 4,000
	1-3:15-14 5-7:11-10	1CT:1.5CT		
(XXXX)1553-45 [2]	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
	1-3:15-14 5-7:11-10	1CT:1.79CT		

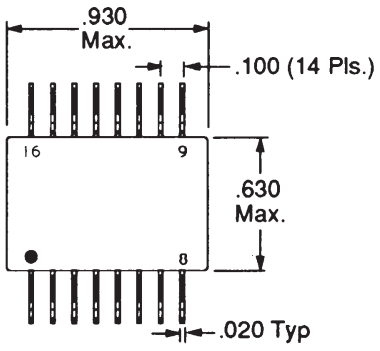
[1] **Refer to prefix table (below) to select temperature range.**

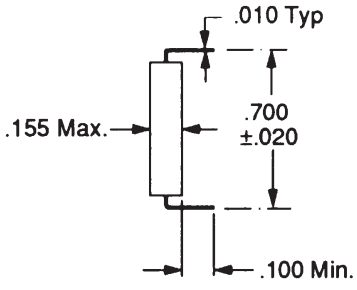
[2] **Designed for transceivers utilizing a single supply voltage (+5V).**

operating temp.	prefix
0° to 70°C	DTLC
-40° to +85°C	DTLN
-55° to +125°C	DTL

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







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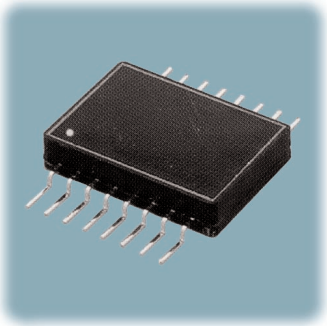
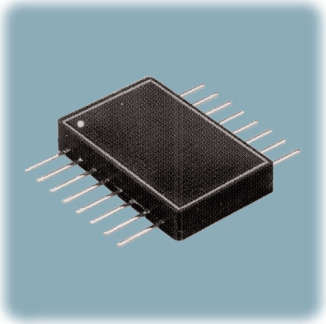
Surface mount dual low profile MIL-PRF-21038 Interface Transformers

These non-QPL interface transformers are built and tested in ISO 9002 approved facilities. They conform to all electrical and physical parameters of MIL-PRF-21038/27. Choose one of three operating temperature ranges, including 0° to +70° C, -40° to +85° C, or -55° to +125° C.



gull wing package



flat pack

- dual ratio, dual interface (see schematic)
- 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
- three available operating temperatures; two packages:

operating temp.	gull wing package	flat pack
0° to 70°C	DGLC	DFLC
-40° to +85°C	DGLN	DFLN
-55° to +125°C	DGL	DFL

APPLICABLE SPECIFICATIONS

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

SUMMARY PERFORMANCE SPECIFICATIONS

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

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CHARACTERISTICS

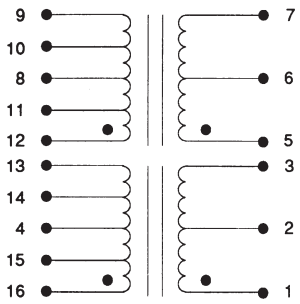
- dual interface
- low profile
- dual ratio
- surface-mount

PART NO.	TERMINALS	RATIO (±3%)	RDC (ohms) MAX.	IMPEDANCE (ohms) MIN.
(XXXX1553-1) [1]	1-3:16-13 5-7:12-9	1CT:1CT	1-3, 5-7 = 3.0 16-13, 12-9 = 3.0	(1-3, 5-9) 4,000
	1-3:15-14 5-7:11-10	1CT:.707CT		
(XXXX1553-2)	1-3:16-13 5-7:12-9	1.4CT:1CT	1-3, 5-7 = 3.5 16-13, 12-9 = 3.0	(1-3, 5-7) 7,200
	1-3:15-14 5-7:11-10	2CT:1CT		
(XXXX1553-3)	1-3:16-13 5-7:12-9	1.25CT:1CT	1-3, 5-7 = 3.2 16-13, 12-9 = 3.0	(1-3, 5-7) 4,000
	1-3:15-14 5-7:11-10	1.66CT:1CT		
(XXXX1553-5) [2]	1-3:16-13 5-7:12-9	1CT:2.12CT	1-3, 5-7 = 1.0 16-13, 12-9 = 3.5	(16-13, 12-9) 4,000
	1-3:15-14 5-7:11-10	1CT:1.5CT		
(XXXX1553-45) [2]	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
	1-3:15-14 5-7:11-10	1CT:1.79CT		

[1] **Refer to prefix table (below) to select temperature range and package.**

[2] **Designed for transceivers utilizing a single supply voltage (+5V).**

operating temp.	gull wing package	flat pack
0° to 70°C	DGLC	DFLC
-40° to +85°C	DGLN	DFLN
-55° to +125°C	DGL	DFL



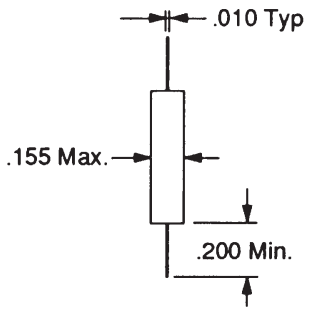
Notes:

1. All dimensions are in inches.

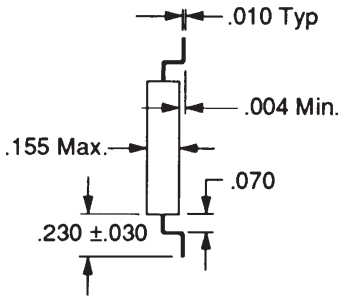
2. Tolerances: .xx = +.008

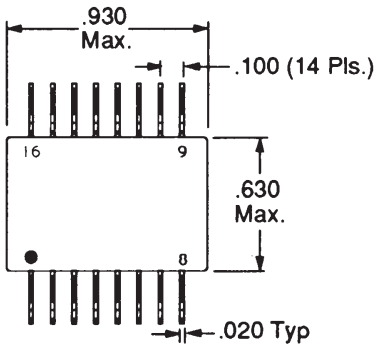
3. All specifications and dimensions are subject to change without notice.

DFL(X)1553-(X)



DGL(X)1553-(X)





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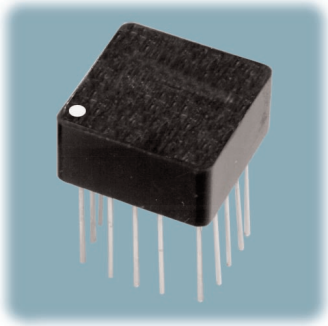
Through the board dual stacked MIL-PRF-21038 Interface Transformers

These non-QPL interface transformers are built and tested in ISO 9002 approved facilities. They conform to all electrical and physical parameters of MIL-PRF-21038/27. Choose one of three operating temperature ranges, including 0° to +70° C, -40° to +85° C, or -55° to +125° C.



- dual ratio, dual interface (see schematic)
- through the board package
- for use in MIL-STD-1553 applications
- vertically stacked for minimum XY area
- performance to MIL-PRF-21038/27 requirements
- built in ISO 9002 facility

operating temp.	prefix
0° to 70°C	STQC
-40° to +85°C	STQN
-55° to +125°C	STQ

APPLICABLE SPECIFICATIONS

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

SUMMARY PERFORMANCE SPECIFICATIONS

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

Downloaded from Arrow.com.

CHARACTERISTICS

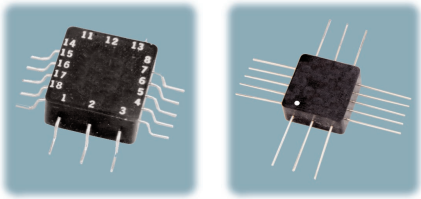
- dual interface
- stacked
- dual ratio
- through the board

PART NO.	TERMINALS	RATIO (±3%)	RDC (ohms) MAX	IMPEDANCE (ohms) MIN
(XXXX)1553-1 [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
(XXXX)1553-2	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
(XXXX)1553-3	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
(XXXX)1553-5 [2]	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
(XXXX)1553-45 [2]	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

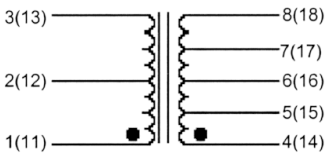
[1] Refer to prefix table (below) to select temperature range and package.

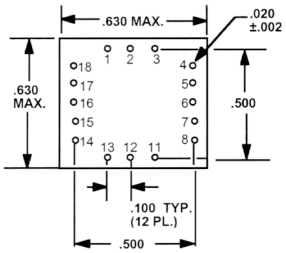
[2] Designed for transceivers utilizing a single supply voltage (+5V).

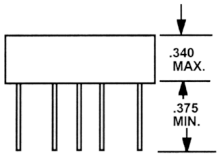
operating temp.	prefix
0° to 70°C	STQC
-40° to +85°C	STQN
-55° to +125°C	STQ



Also available in gull wing and flat pack configurations for surface mounting







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

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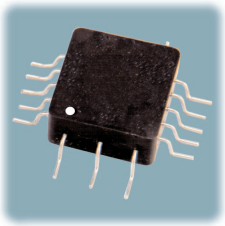
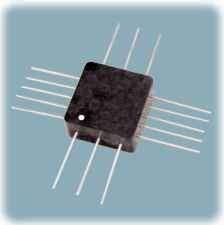
Surface mount dual stacked MIL-PRF-21038 Interface Transformers


gull wing package


flat pack

These non-QPL interface transformers are built and tested in ISO 9002 approved facilities. They conform to all electrical and physical parameters of MIL-PRF-21038/27. Choose one of three operating temperature ranges, including 0° to +70° C, -40° to +85° C, or -55° to +125° C.

- dual ratio, dual interface (see schematic)
- surface mount packages
- for use in MIL-STD-1553 applications
- vertically stacked for minimum XY area
- performance to MIL-PRF-21038/27 requirements
- built in ISO 9002 facility

operating temp.	gull wing package	flat pack
0° to 70°C	SGQC	SFQC
-40° to +85°C	SGQN	SFQN
-55° to +125°C	SGQ	SFQ

APPLICABLE SPECIFICATIONS

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

SUMMARY PERFORMANCE SPECIFICATIONS

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

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CHARACTERISTICS

- dual interface
- stacked
- dual ratio
- surface mount

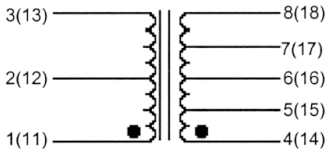
PART NO.	TERMINALS	RATIO (±3%)	RDC (ohms) MAX	IMPEDANCE (ohms) MIN
(XXXX)1553-1 [1]	1-3:4-8 (11-13:14-18) 1-3:5-7 (11-13:15-17)	1CT:1CT 1.41CT:1CT	1-3 (11-13) 3.5 4-8 (14-18) 3.0	(1-3 & 11-13) 4,000
(XXXX)1553-2	1-3:4-8 (11-13:14-18) 1-3:5-7 (11-13:15-17)	1.4CT:1CT 2CT:1CT	1-3 (11-13) 3.0 4-8 (14-18) 3.0	(1-3 & 11-13) 7,200
(XXXX)1553-3	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
(XXXX)1553-5 [2]	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
(XXXX)1553-45 [2]	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

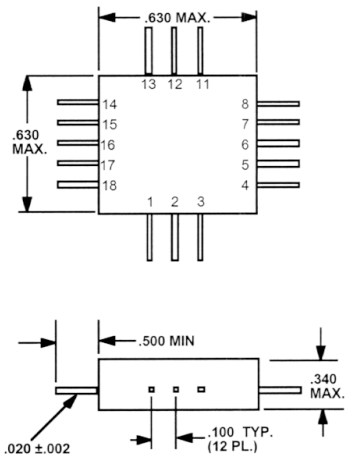
[1] **Refer to prefix table (below) to select temperature range and package.**

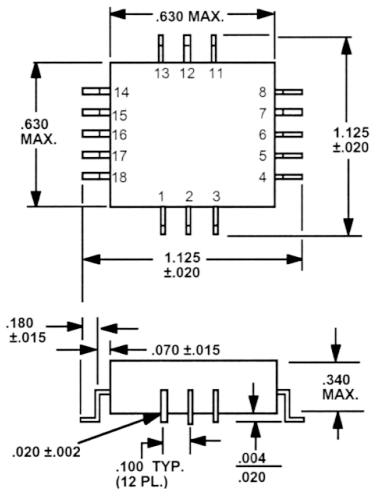
[2] **Designed for transceivers utilizing a single supply voltage (+5V).**

operating temp.	gull wing package	flat pack
0° to 70°C	SGQC	SFQC
-40° to +85°C	SGQN	SFQN
-55° to +125°C	SGQ	SFQ

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







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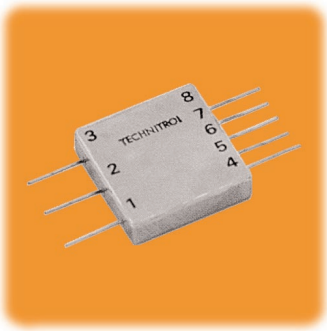
Surface mount hermetically sealed MIL-PRF-21038 Interface Transformers

These hermetically sealed non-QPL interface transformers conform to all electrical and physical parameters of MIL-PRF-21038/27 and provide performance as required over -55° to +125°. Built and tested in ISO 9002 approved facilities. Flat pack surface mount package.



- dual ratio, single interface
- for use in MIL-STD-1553 applications
- performance to MIL-PRF-21038/27 requirements
- built in ISO 9002 facility
- -55° to +125° C operating temperatures

APPLICABLE SPECIFICATIONS

- **MIL-STD-1553B**
- **MIL-STD-202**
- **MIL-I-45208**
- **MIL-T-10727**
- **MIL-PRF-21038**
- **ISO 9002**

SUMMARY PERFORMANCE SPECIFICATIONS

Impedance	see table, next page
Droop	≤ 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

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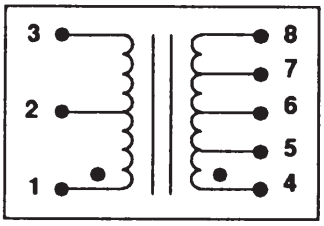
CHARACTERISTICS

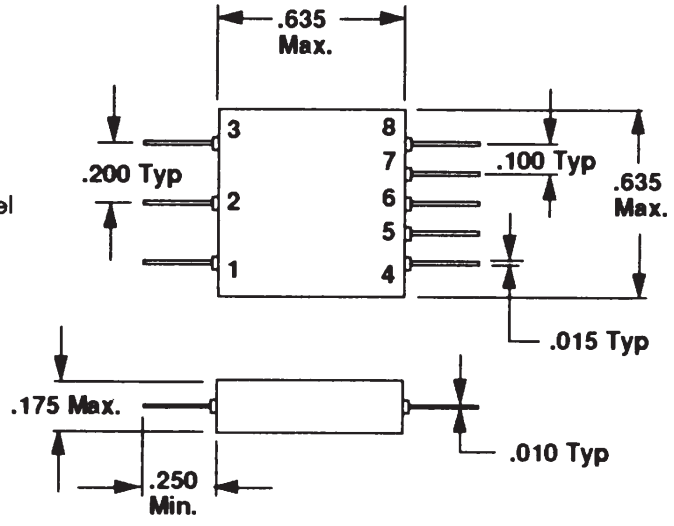
PART NO.	TERMINALS	RATIO (±3%)	RDC (ohms) MAX	IMPEDANCE (ohms) MIN
H1553-1	1-3:4-8 1-3:5-7	1CT:1CT 1CT:.707CT	1-3 3.0 4-8 3.0	(1-3) 4000
H1553-2	1-3:4-8 1-3:5-7	1.4CT:1CT 2CT:1CT	1-3 3.5 4-8 3.0	(1-3) 7,200
H1553-3	1-3:4-8 1-3:5-7	1.25CT:1CT 1.66CT:1CT	1-3 3.2 4-8 3.0	(1-3) 4000
H1553-5*	1-3:4-8 1-3:5-7	1CT:2.12CT 1CT:1.5CT	1-3 1.0 4-8 3.5	(4-8) 4,000
H1553-45*	1-3:4-8 1-3:5-7	1CT:2.50CT 1CT:1.79CT	1-3 1.0 4-8 3.5	(4-8) 4,000

- hermetically sealed
- single interface
- dual ratio
- surface-mount flat pack

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



Note: Case and cover are nickel plated Kovar. Leads are nickel-plated Kovar. Other lead finishes available.



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

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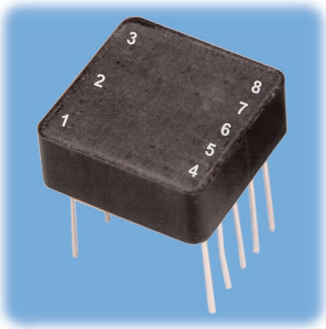
Value Series (COTS) through the board MIL-PRF-21038 Interface Transformers

QPL COTS

The transformer package shown on this page is also available fully qualified to MIL-PRF-21038/27 requirements.

These non-QPL interface transformers are built and tested in ISO 9002 approved facilities. They conform to all electrical and physical parameters of MIL-PRF-21038/27. Choose one of three operating temperature ranges including 0° to +70° C, -40° to +85° C, or -55° to +125° C.

- dual ratio, single interface (see schematic)
- through the board package
- for use in MIL-STD-1553 applications
- standard height, 0.250 in.
- performance to MIL-PRF-21038/27 requirements
- built in ISO 9002 facility



APPLICABLE SPECIFICATIONS

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

operating temp.	prefix
0° to 70°C	C
-40° to +85°C	N
-55° to +125°C	TQ

SUMMARY PERFORMANCE SPECIFICATIONS

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

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CHARACTERISTICS

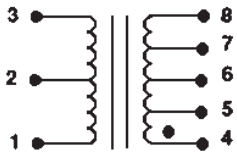
PART NO.	TERMINALS	RATIO (±3%)	RDC (ohms) MAX.	IMPEDANCE (ohms) MIN.
(X)1553-1 [1]	1-3:4-8 1-3:5-7	1CT:1CT 1CT:.707CT	1-3 = 3.0 4-8 = 3.0	(1-3) 4,000
(X)1553-2	1-3:4-8 1-3:5-7	1.4CT:1CT 2CT:1CT	1-3 = 3.5 4-8 = 3.0	(1-3) 7,200
(X)1553-3 [2]	1-3:4-8 1-3:5-7	1.25CT:1CT 1.66CT:1CT	1-3 = 3.2 4-8 = 3.0	(1-3) 4,000
(X)1553-5 [2]	1-3:4-8 1-3:5-7	1CT:2.12CT 1CT:1.5CT	1-3 = 1.0 4-8 = 3.5	(4-8) 4,000
(X)1553-45 [2]	1-3:4-8 1-3:5-7	1CT:2.5CT 1CT:1.79CT	1-3 = 1.0 4-8 = 3.5	(4-8) 4,000

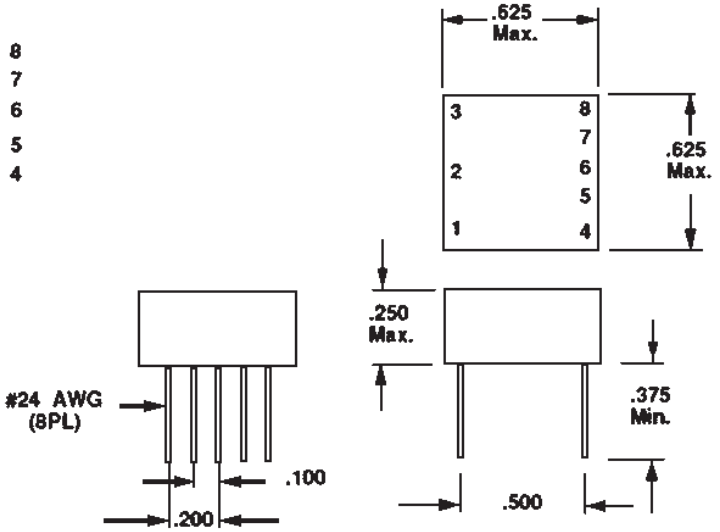
- standard profile
- dual ratio
- through the board

[1] **Refer to prefix table (right) to select temperature range.**

[2] **Designed for transceivers utilizing a single supply voltage (+5V).**

operating temp.	prefix
0° to 70°C	C
-40° to +85°C	N
-55° to +125°C	TQ





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

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Pulse Specialty Components warrants for a period of 90 days from the date of shipment, that under normal use and service, its products will be free from defects in workmanship and material. Pulse Specialty Components' sole responsibility under this warranty is, at its option, to repair or replace, without charge, any defective product or part, or to credit buyer for the purchase price of such defective product, provided:

1) Buyer promptly notifies Pulse Specialty Components in writing within the warranty period, and

2) The defective product or part is returned to Pulse Specialty Components with transportation charges prepaid by Buyer, and

3) Pulse Specialty Components examination of such product shall disclose to its satisfaction that said defect exists and has not been caused by misuse, neglect, improper installation, repair or alteration, or accident.

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