# DEICO MIL-STD-1553 Bus Couplers

D DEICO

INB DE80053XX

# IN-LINE TYPE

# MIL-STD-1553 In-Line Bus Couplers

# **Product Overview**

The MIL-STD-1553 communication bus electrically connects multiple devices to facilitate reliable communication in various platforms, including both military and civil applications.

These bus configurations are built using various components such as cables, bus couplers, terminating resistors and connectors. In a data bus structure, bus couplers play a role in providing shielding, isolation resistance and transformer interfaces for connection points known as stubs. In this respect, bus couplers are the commercial offthe-shelf (COTS) solutions for easier and more reliable wiring.

DEICO bus couplers are designed to provide an economical solution for both platform and professional benchtop test systems. The product offers users the opportunity to have MIL-STD-1553 bus networks through fast delivery options at a fraction of the cost.



In-Line Type Couple	ers with 1 Stub (Aeronautics	)	
Product Code	Transformer Ratio	Stub Resistor Value	Configuration / Termination Type
DE80101XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / No termination
DE80001XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / No termination
DE80121XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Right side terminated
DE80111XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Left side terminated
In-Line Type Couple	ers with 2 Stubs (Aeronautic	s)	
Product Code	Transformer Ratio	Stub Resistor Value	Configuration / Termination Type
DE80102XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / No termination
DE80002XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / No termination
DE80122XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Right side terminated
DE80132XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Double side terminated
DE80022XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / Right side terminated
DE80032XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / Double side terminated
In-Line Type Couple	ers with 3 Stubs (Aeronautic	s)	
Product Code	Transformer Ratio	Stub Resistor Value	Configuration / Termination Type
DE80103XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / No termination
DE80003XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / No termination
DE80123XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Right side terminated
DE80113XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Left side terminated
DE80133XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Double side terminated
DE80023XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / Right side terminated
DE80033XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / Left side terminated

Product CodeTransformer RatioStub Resistor ValueConfiguration / Termination TypeDE80104XX1:1.4159 Ohms ±1% 1WBus lines on opposite side / No terminationDE80104XX1:1.4159 Ohms ±1% 1WBus lines on opposite side / No terminationDE80124XX1:1.4159 Ohms ±1% 1WBus lines on opposite side / Right side terminatedDE80124XX1:1.4159 Ohms ±1% 1WBus lines on opposite side / Right side terminatedDE80124XX1:1.4159 Ohms ±1% 1WBus lines on same side / Right side terminatedDE8024XX1:1.4159 Ohms ±1% 1WBus lines on same side / Right side terminatedDE8034XX1:1.4159 Ohms ±1% 1WBus lines on same side / Double side terminatedDE8034XX1:1.4159 Ohms ±1% 1WBus lines on same side / Double side terminatedIn-Line Type Couplers with 1 Stub (Space)TerminationTypeProduct CodeTransformer RatioStub Resistor ValueConfiguration / Termination TypeDE81101XX1:1.4159 Ohms ±1% 1WBus lines on same side / No terminationDE8111XX1:1.4159 Ohms ±1% 1WBus lines on opposite side / Right side terminatedDE8111XX1:1.4159 Ohms ±1% 1WBus lines on opposite side / No terminationDE81121XX1:1.4159 Ohms ±1% 1WBus lines on opposite side / Right side terminatedDE81102XX1:1.4159 Ohms ±1% 1WBus lines on same side / No terminationDE81102XX1:1.4159 Ohms ±1% 1WBus lines on same side	In-Line Type Couplers with 4 Stubs (Aeronautics)			
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Double side terminated     Double side terminated     In-Line Type Couplers with 3 Stubs (Space)   Configuration / Termination     Product Code   Transformer Ratio   Stub Resistor Value   Configuration / Termination     DE81103XX   1:1.41   59 Ohms ±1% 1W   Bus lines on opposite side / No termination	DE81022XX	1:1.41	59 Ohms ±1% 1W	-
Product Code     Transformer Ratio     Stub Resistor Value     Configuration / Termination Type       DE81103XX     1:1.41     59 Ohms ±1% 1W     Bus lines on opposite side / No termination	DE81032XX	1:1.41	59 Ohms ±1% 1W	
DE81103XX 1:1.41 59 Ohms ±1% 1W Bus lines on opposite side / No termination	In-Line Type Couplers with 3 Stubs (Space)			
No termination				Туре
<b>DE81003XX</b> 1:1.41 59 Ohms ±1% 1W Bus lines on same side /				No termination
No termination	DE81003XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / No termination

# **MIL-STD-1553 Bus Couplers**

# DEICO

DE81123XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Right side terminated
DE81113XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Left side terminated
DE81133XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Double side terminated
DE81023XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / Right side terminated
DE81033XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / Left side terminated

			Left side terminated
In-Line Type Couplers with 4 Stubs (Space)			
Product Code	Transformer Ratio	Stub Resistor Value	Configuration / Termination
			Туре
DE81104XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / No termination
DE81004XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / No termination
DE81124XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Right side terminated
DE81134XX	1:1.41	59 Ohms ±1% 1W	Bus lines on opposite side / Double side terminated
DE81024XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / Right side terminated
DE81034XX	1:1.41	59 Ohms ±1% 1W	Bus lines on same side / Double side terminated



1.	ELECTRICAL SPECIFICATIONS	
1.1	COMMON MODE REJECTION:	-45.0dB MAX @1.0MHz
1.2	DROOP:	20% MAX (250kHz)
1.3	<b>OVERSHOOT &amp; RINGING:</b>	±1.0V PEAK (250kHz SQUARE WAVE WITH 100ns)
1.4	STUB VOLTAGE:	1.0V TO 14.0V P-P, LINE TO LINE, SIGNAL VOLTAGE,
		TRANSFORMER COUPLING
1.5	INPUT IMPEDANCE OF BUS:	3000 ΩMIN (75kHz – 1.0MHz), STUB WITH OPEN CIRCUIT

## 2. MECHANICAL SPECIFICATIONS

#### **2.1 ENCLOSURE MATERIAL:** TINPLATE 0.5mm THK.

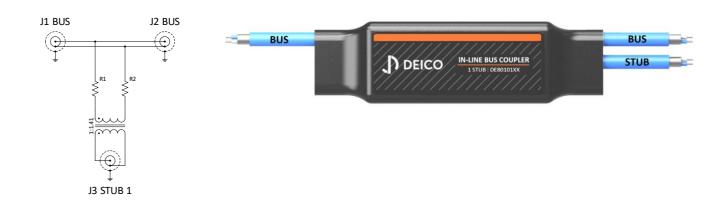
3.	ENVIRONMENTAL SPECIFICATIONS	
3.1	HIGH TEMPERATURE	MIL-STD-810G_CHG-1 METHOD 501.6 PROCEDURE II, +125°C
	OPERATING:	
3.2	LOW TEMPERATURE	MIL-STD-810G_CHG-1 METHOD 502.6 PROCEDURE II, -55°C
	OPERATING:	
3.3	HIGH TEMPERATURE STORAGE:	MIL-STD-810G_CHG-1 METHOD 501.6 PROCEDURE I, +125°C
3.4	LOW TEMPERATURE STORAGE:	MIL-STD-810G_CHG-1 METHOD 502.6 PROCEDURE I, -55°C
3.5	VIBRATION:	MIL-STD-810G_CHG-1 METHOD 514.7 PROCEDURE I -
		CATEGORY 12, 15Hz TO 2000Hz, (Performance: W0=0.040 and
		A=0.02, Duration: half hour/axis), (Endurance: W0=0.053 and
		A=0.02, Duration: 1 hour/axis)
3.6	SHOCK:	MIL-STD-810G_CHG-1 METHOD 516.7 PROCEDURE V (40g,
		11ms, Terminal Peak Sawtooth, Number of shocks: 12, two in
		each direction of three axes)
3.7	RAIN:	MIL-STD-810G METHOD 506.5 PROCEDURE I

4. ORDERING INF	ORMATION
ТҮРЕ	0: AERONAUTICS TYPE
	1: SPACE TYPE
PRODUCT	0: BUS LINES ON SAME SIDE
CONFIGURATION	1: BUS LINES ON OPPOSITE SIDE
TERMINATION	0: NOT TERMINATED
	1: LEFT SIDE TERMINATED
	2: RIGHT SIDE TERMINATED
	3: DOUBLE/DUAL TERMINATED [NOT OPTIONAL FOR 1 STUB]
NUMBER OF STUBS	1-4 STUB
CABLE LENGTH	01-99 (IN METERS FOR EACH CABLE)
EXAMPLE	DE8003403 – AERONAUTICS TYPE BUS LINES ON SAME SIDE DOUBLE SIDE
	TERMINATED 4 STUB 3 METERS
*NOTE	PRODUCT CONFIGURATIONS ARE THE SAME FOR AERONAUTICS AND SPACE TYPES
	EXCEPT THE SOLDER. SHRINK TUBE. POTTING MATERIAL AND CABLE TYPE.

# DE80101XX & DE81101XX Technical Specifications

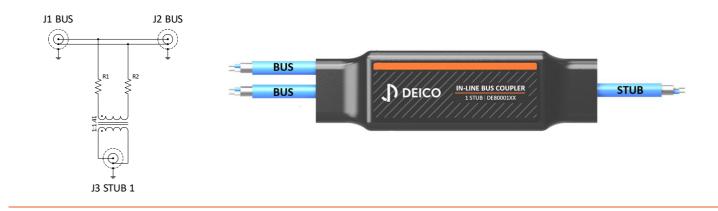
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R2) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	NOT TERMINATED

## **Schematics**



# DE80001XX & DE81001XX Technical Specifications

CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R2) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	NOT TERMINATED



# DE80111XX & DE81111XX Technical Specifications

CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R2) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R3) BUS TERMINATION

## **Schematics**



# DE80121XX & DE81121XX Technical Specifications

CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R2) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R4) BUS TERMINATION



# DE80102XX & DE81102XX Technical Specifications

CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R4) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	NOT TERMINATED

#### **Schematics**



## DE80002XX & DE81002XX Technical Specifications

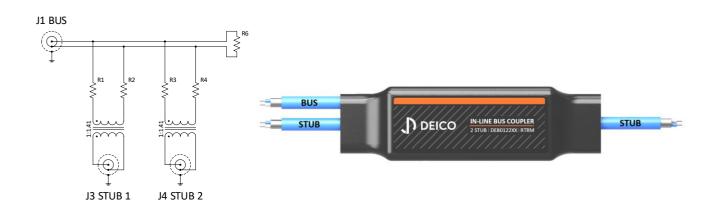
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS 59 OHMS ±1% 1W (R1-R4) IN SERIES
FAULT PROTECTION:	WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	NOT TERMINATED



# DE80122XX & DE81122XX Technical Specifications

CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS 59 OHMS ±1% 1W (R1-R4) IN SERIES
FAULT PROTECTION:	WITH TRANSFORMER WINDING ON BUS
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R6) BUS TERMINATION

#### **Schematics**



# DE80022XX & DE81022XX Technical Specifications

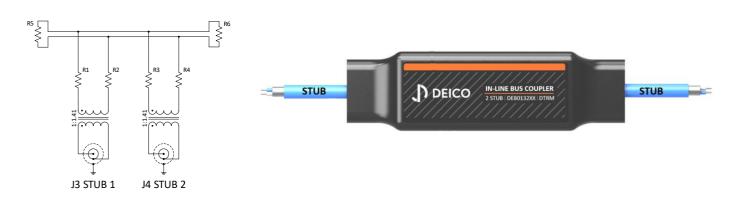
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R4) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R6) BUS TERMINATION



# DE80132XX & DE81132XX Technical Specifications

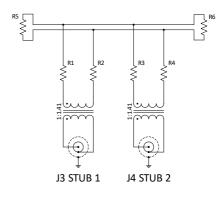
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R4) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R5, R6) BUS TERMINATION

## **Schematics**



# DE80032XX & DE81032XX Technical Specifications

CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R4) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R5, R6) BUS TERMINATION

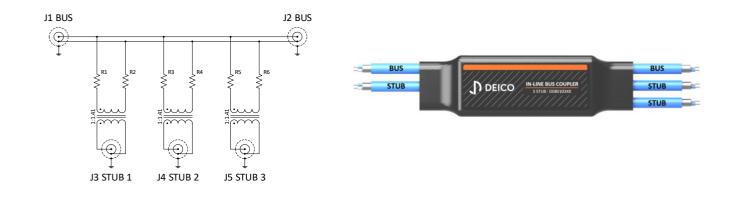




# DE80103XX & DE81103XX Technical Specifications

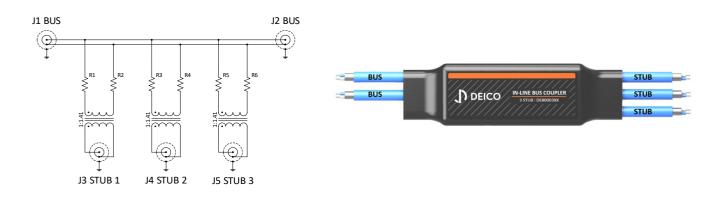
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R6) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	NOT TERMINATED

## **Schematics**



## DE80003XX & DE81003XX Technical Specifications

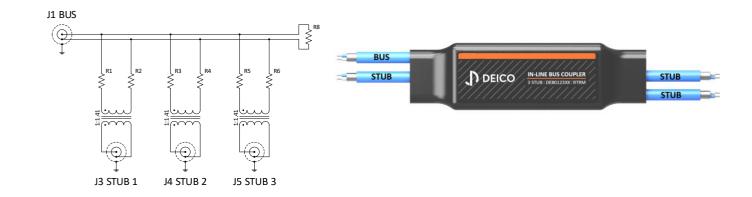
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
	59 OHMS ±1% 1W (R1-R6) IN
FAULT PROTECTION:	SERIES WITH TRANSFORMER
	WINDING ON BUS SIDE
<b>TERMINATION RESISTOR VALUE:</b>	NOT TERMINATED



# DE80123XX & DE81123XX Technical Specifications

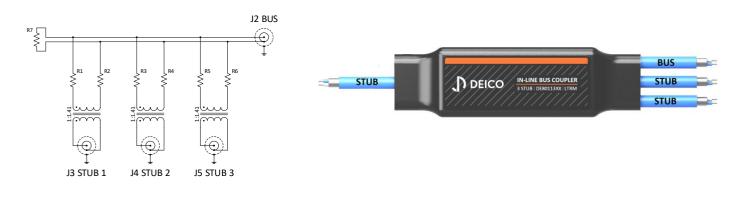
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
	59 OHMS ±1% 1W (R1-R6) IN
FAULT PROTECTION:	SERIES WITH TRANSFORMER
	WINDING ON BUS SIDE
<b>TERMINATION RESISTOR VALUE:</b>	78.7 OHMS ±1% 2W (R8) BUS TERMINATION

#### **Schematics**



# DE80113XX & DE81113XX Technical Specifications

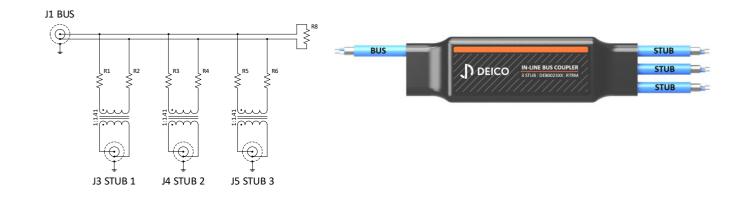
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R6) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R7) BUS TERMINATION



# DE80023XX & DE81023XX Technical Specifications

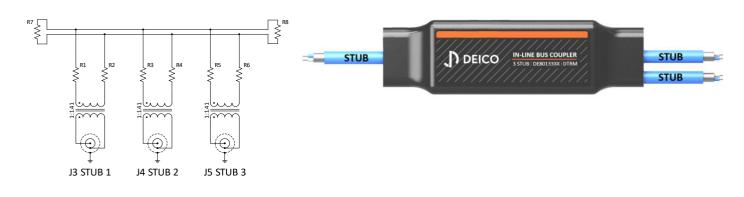
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R6) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R8) BUS TERMINATION

#### **Schematics**



# DE80133XX & DE81133XX Technical Specifications

CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
	59 OHMS ±1% 1W (R1-R6) IN SERIES
FAULT PROTECTION:	WITH TRANSFORMER WINDING ON
	BUS SIDE
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R7, R8) BUS TERMINATION



# DE80033XX & DE81033XX Technical Specifications

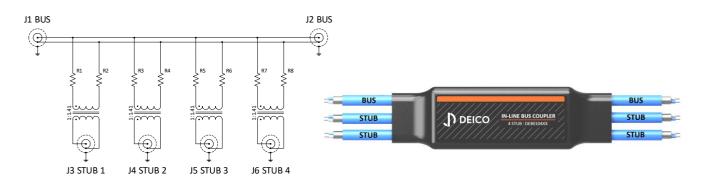
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
	59 OHMS ±1% 1W (R1-R6) IN SERIES
FAULT PROTECTION:	WITH TRANSFORMER WINDING ON
	BUS SIDE
<b>TERMINATION RESISTOR VALUE:</b>	78.7 OHMS ±1% 2W (R7, R8) BUS TERMINATION
	WITH TRANSFORMER WINDING ON BUS SIDE

## **Schematics**



#### DE80104XX & DE81104XX Technical Specifications

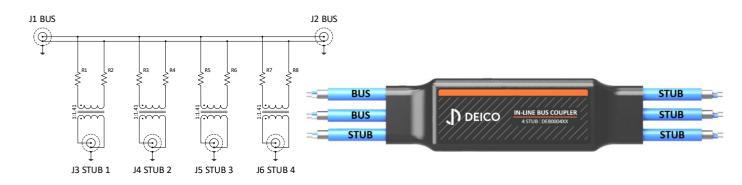
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R8) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	NOT TERMINATED



# DE80004XX & DE81004XX Technical Specifications

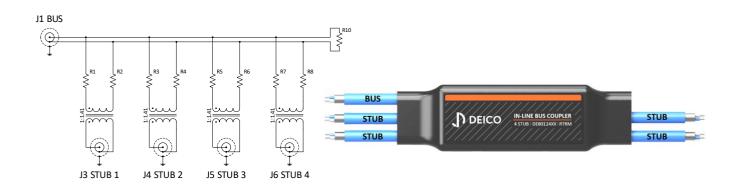
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS
FAULT PROTECTION:	59 OHMS ±1% 1W (R1-R8) IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	NOT TERMINATED

## **Schematics**



#### DE80124XX & DE81124XX Technical Specifications

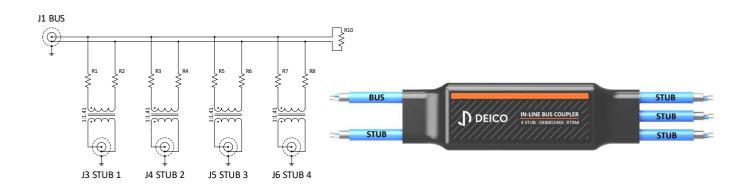
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS 59 OHMS ±1% 1W (R1-R8) IN SERIES
FAULT PROTECTION:	WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R10) BUS TERMINATION



# DE80024XX & DE81024XX Technical Specifications

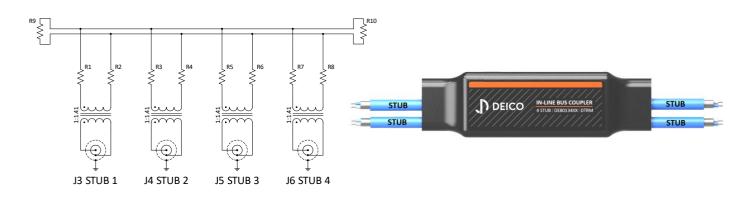
CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS 59 OHMS ±1% 1W (R1-R8) IN SERIES
FAULT PROTECTION:	WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R10) BUS TERMINATION

#### **Schematics**



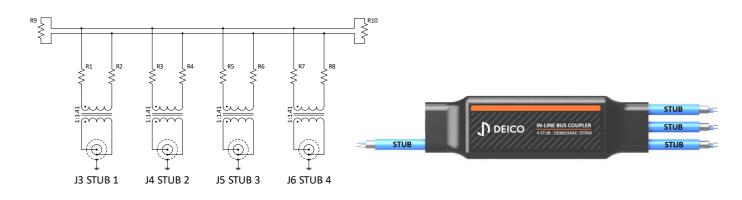
# DE80134XX & DE81134XX Technical Specifications

CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS 59 OHMS ±1% 1W (R1-R8) IN SERIES
FAULT PROTECTION:	WITH TRANSFORMER WINDING ON BUS SIDE
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R9, R10) BUS TERMINATION



# DE80034XX & DE81034XX Technical Specifications

CHARACTERISTIC IMPEDANCE:	Zo = 78 OHMS 59 OHMS ±1% 1W (R1-R8) IN SERIES
FAULT PROTECTION:	WITH TRANSFORMER WINDING ON BUS
TERMINATION RESISTOR VALUE:	78.7 OHMS ±1% 2W (R9, R10) BUS TERMINATION





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