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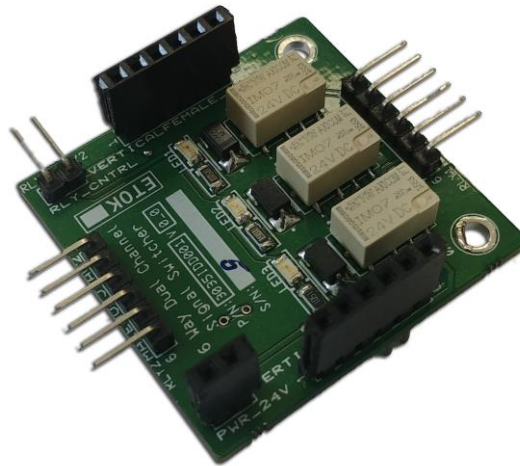
## DATA SHEET

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### Reed Relay - Stackable 6 Line Switcher 3035 Series

#### DESCRIPTION

The 3035 Series is a six channel relay board series using reed relays. This implementation is targeted at signal switching. The boards will come with a choice of supply voltages.



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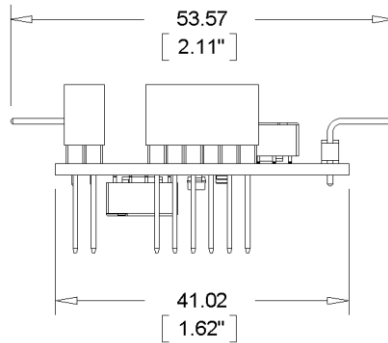
Date: 12/07/2021

Version: 0-1

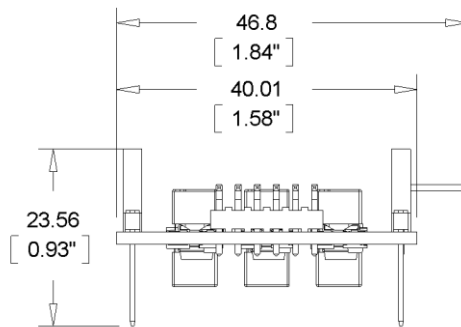
# Dimensions and Board Layout

UNITS: mm [inch]

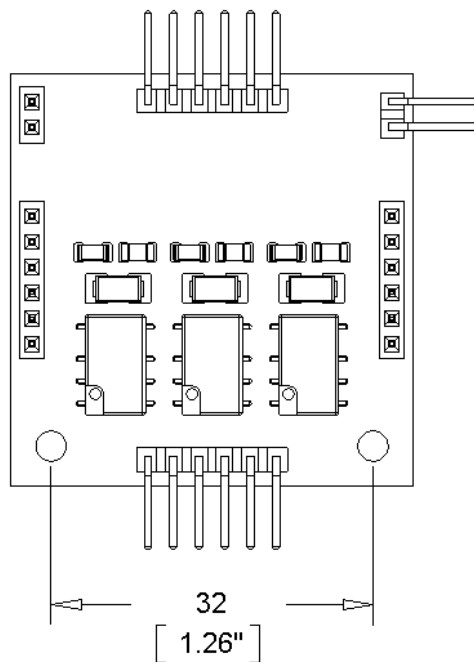
## Side View



## Front View



## Top View



## General Specifications

<b>Mechanical</b>		
Board Length	52mm	
Board Width	40mm	
Board Height	28mm	
Mounting Holes	2 @ 3.1mm Dia.	
PCB Thickness	1.6mm	
PCB Material	FR-4	
<b>Electrical</b>		
PCB Header Conductor	Tin Coated Brass	
Relay Contact Arrangement	2 form C, 2 CO	
Relay Type	Reed Contacts	
Board and Relay Switching Ratings	Maximum Rated Power	62.5VA
	Maximum Switching Voltage	220VDC, 250VAC
	Maximum Constant Current	2A
	Minimum Wetting Current	10 $\mu$ A
	Operate/ Release Time Max	3ms (Without Diode), 5ms (With Diode)
	Bounce Time Max	5ms
	Contact Material	Palladium Ruthenium
	Mechanical Endurance	>10x10 <sup>8</sup> Operations
Ambient Temperature	-40°C to +85°C	
Shock Resistance (destructive)	4900 m/s <sup>2</sup> (500G)	
Vibration Resistance (functional)	10 to 500 Hz (20G)	
<b>RF Data</b>		
Isolation at 100MHz/900MHz	37.0dB/18.8dB	
Insertion Loss at 100MHz/900MHz	0.03dB/0.33dB	
Voltage Standing Wave Ratio (VSWR) at 100MHz/900MHz	1.06/1.49	

## Series Specifications

<b>Order Code</b>	<b>3035IDD001</b>	
<b>Description Code</b> <i>(Refer Key in Page 6)</i>	<b>24-LR-DPNO-06-D</b>	
Board Voltage Input	24V	
Max. Board Power Required @ 24V All Channels ON	3.31 W	
Leakage Current (All Channels Off)	Leakage Current of Driving Device *6 Channels	
Require Min. Driving Current per Channel @ Rated Coil Input Voltage (24V)	23mA (Sinking)	
Relay Coil	Rated Voltage	24V
	Operate Voltage	18V
	Release Voltage	2.4V
	Resistance	2880 ohms
	Rated Power	200mW

<b>Order Code</b>	<b>3035IDD002</b>	
<b>Description Code</b> <i>(Refer Key in Page 6)</i>	<b>12-LR-DPNO-06-D</b>	
Board Voltage Input	12V	
Max. Board Power Required @ 12V All Channels ON	1.9 W	
Leakage Current (All Channels Off)	Leakage Current of Driving Device *6 Channels	
Require Min. Driving Current per Channel @ Rated Coil Input Voltage (12V)	26.4mA (Sinking)	
Relay Coil	Rated Voltage	12V
	Operate Voltage	9V
	Release Voltage	1.2V
	Resistance	1029 ohms
	Rated Power	140mW

<b>Order Code</b>	<b>3035IDD003</b>	
<b>Description Code</b> <i>(Refer Key in Page 6)</i>	<b>5-LR-DPNO-06-D</b>	
Board Voltage Input	5V	
Max. Board Power Required @ 5V All Channels ON	1.31 W	
Leakage Current (All Channels Off)	Leakage Current of Driving Device *6 Channels	
Require Min. Driving Current per Channel @ Rated Coil Input Voltage (5V)	43.8mA (Sinking)	
Relay Coil	Rated Voltage	5V
	Operate Voltage	3.75 V
	Release Voltage	0.5V
	Resistance	178 ohms
	Rated Power	140mW

## Relay Boards Description Code Key

CODE	Relay Control Voltage	Relay Type	Relay Configuration	Number of Relays per board	Relay Control Signal Type	Additional Options
5 V	05					
12 V	12					
24 V	24					
Mechanical	ME*					
Solid State	SS*					
Low Voltage Reed	LR					
High Voltage Reed	HR*					
Single Pole Single Throw - Normally Closed	SPNC*					
Single Pole Single Throw - Normally Open	SPNO*					
Single Pole Double Throw	SPDT*					
Double Pole Single Throw - Normally Closed	DPNC*					
Double Pole Single Throw - Normally Open	DPNO					
Double Pole Double Throw	DPDT*					
6 Relays	06					
8 Relays	08*					
TTL / DIO Controlled	T*					
Relay Driver Controlled	D					
None						
Conformal Coated	CC					
Custom Modifications / Features (On Order)	CM					

\* Option not available in this product

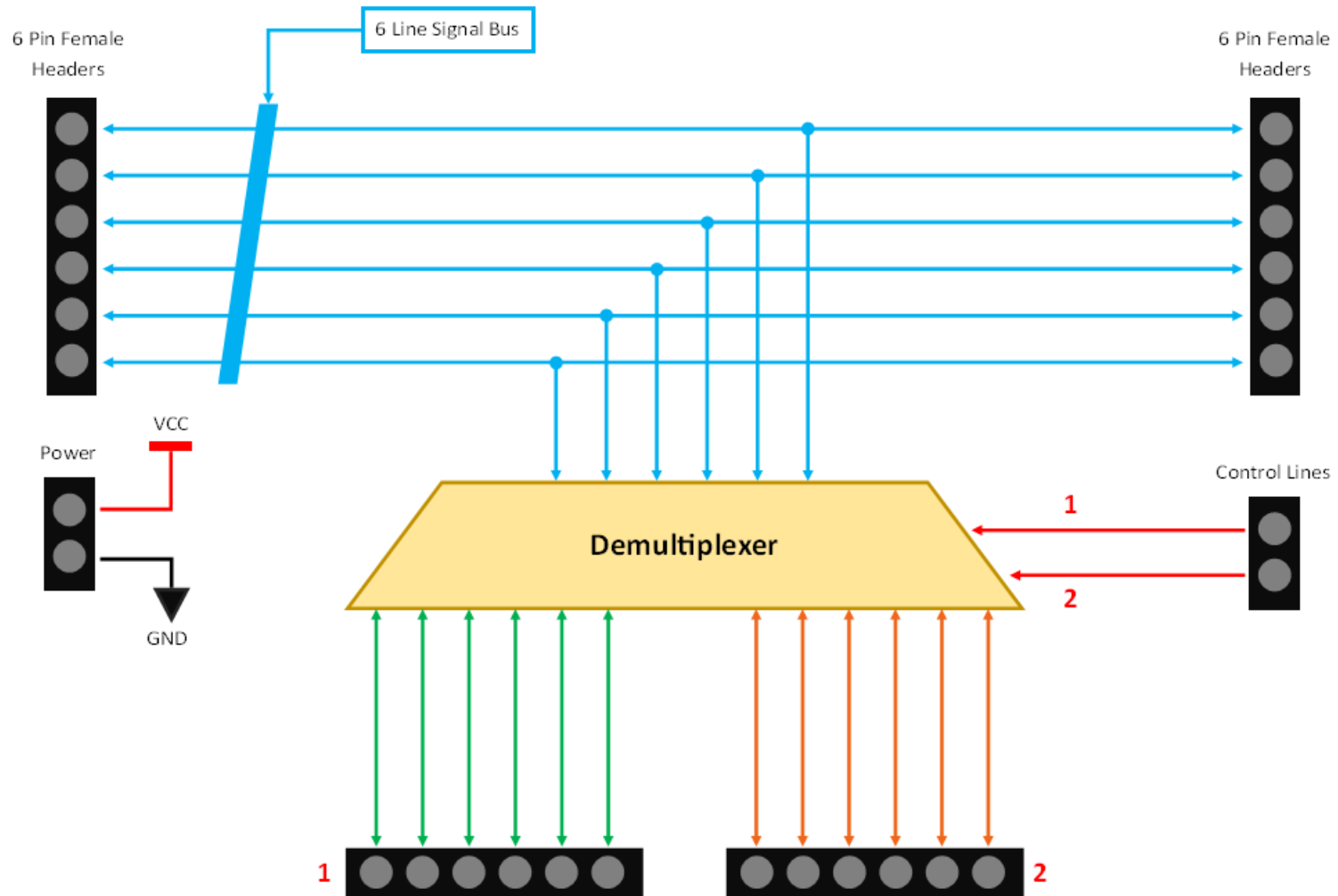
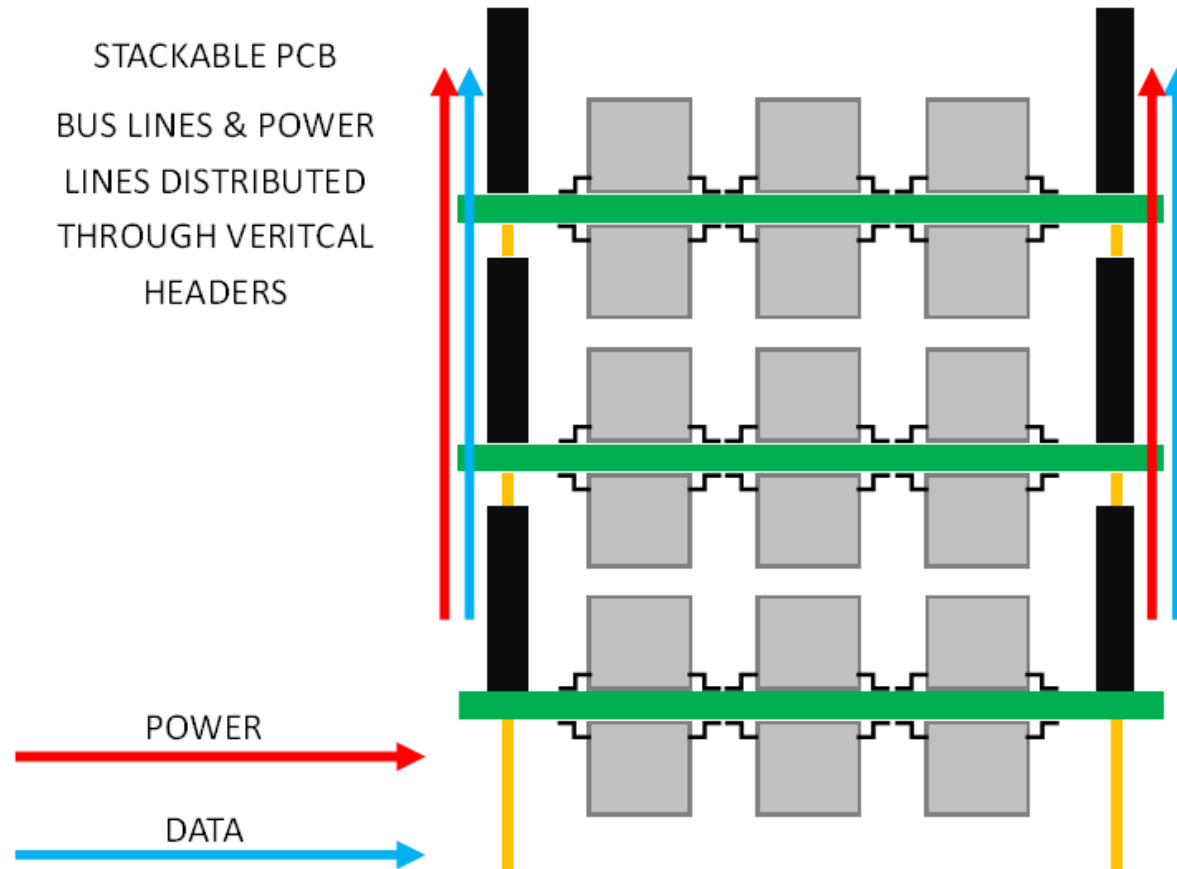


Figure 1 - Block Diagram of Board Functionality



*Figure 2 - Block Diagram of Board Usage for Stacked Bus Lines*