
DATA SHEET

Reed Relay - Stackable 6 Line Switcher 3035 Series

DESCRIPTION

The 3035 Series is a six channel relay board series implemented using reed relays.

This Series is targeted at signal switching.

The boards have a bussed input on the left and right side, and the boards can be stacked to increase the devices on the bus. Boards will come with a choice of supply voltages.



Document ID: 3035OPM001

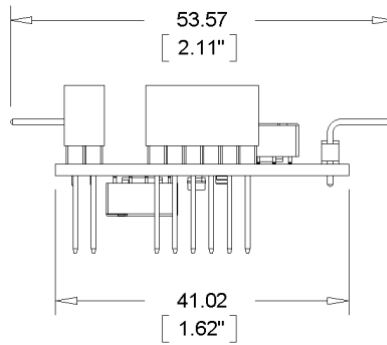
Date: 16/01/2018

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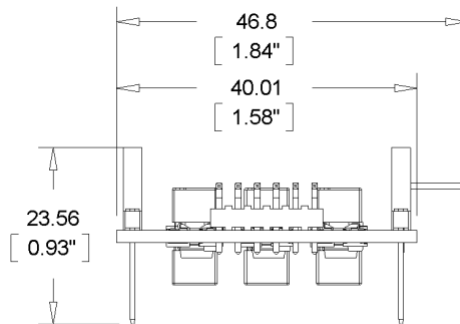
Dimensions and Board Layout

UNITS: mm [inch]

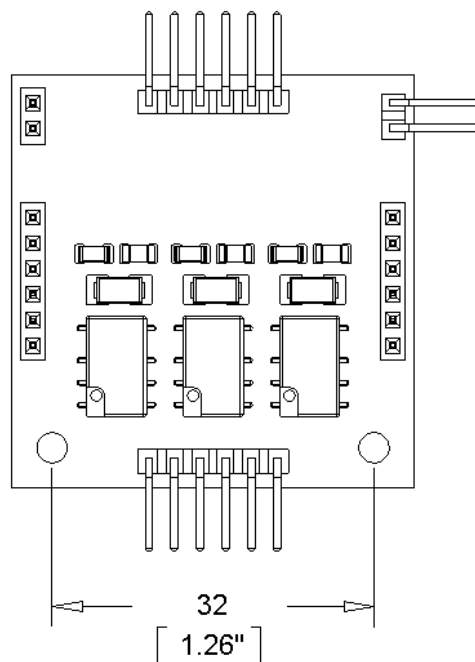
Side View



Front View



Top View



General Specifications

Mechanical		
Board Length	52mm	
Board Width	40mm	
Board Height	28mm	
Mounting Holes	2 @ 3.1mm Dia.	
PCB Thickness	1.6mm	
PCB Material	FR-4	
Electrical		
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 μ A
	Operate/ Release Time Max	3ms (Without Diode), 5ms (With Diode)
	Bounce Time Max	5ms
	Contact Material	Palladium Ruthenium
Mechanical Endurance	>10x10 ⁸ Operations	
Ambient Temperature	-40°C to +85°C	
Shock Resistance (destructive)	4900 m/s ² (500G)	
Vibration Resistance (functional)	10 to 500 Hz (20G)	
RF Data		
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

Order Code		3035IDD001
Description Code (Refer Key in Page 6)		24-LR-DPNO-06-D
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

Order Code		3035IDD002
Description Code (Refer Key in Page 6)		12-LR-DPNO-06-D
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

Order Code		3035IDD003
Description Code (Refer Key in Page 6)		5-LR-DPNO-06-D
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					

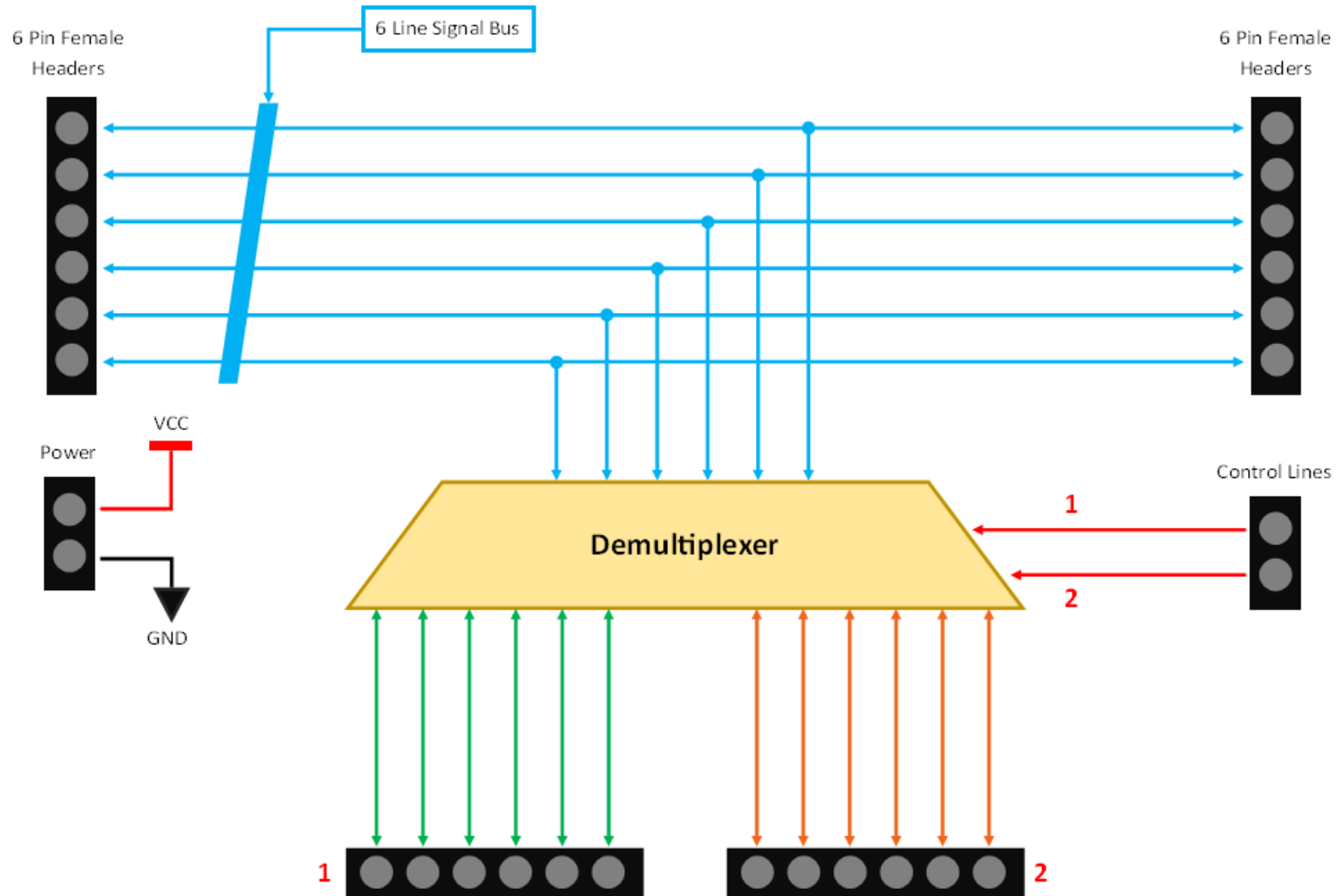


Figure 1 - Block Diagram of Board Functionality

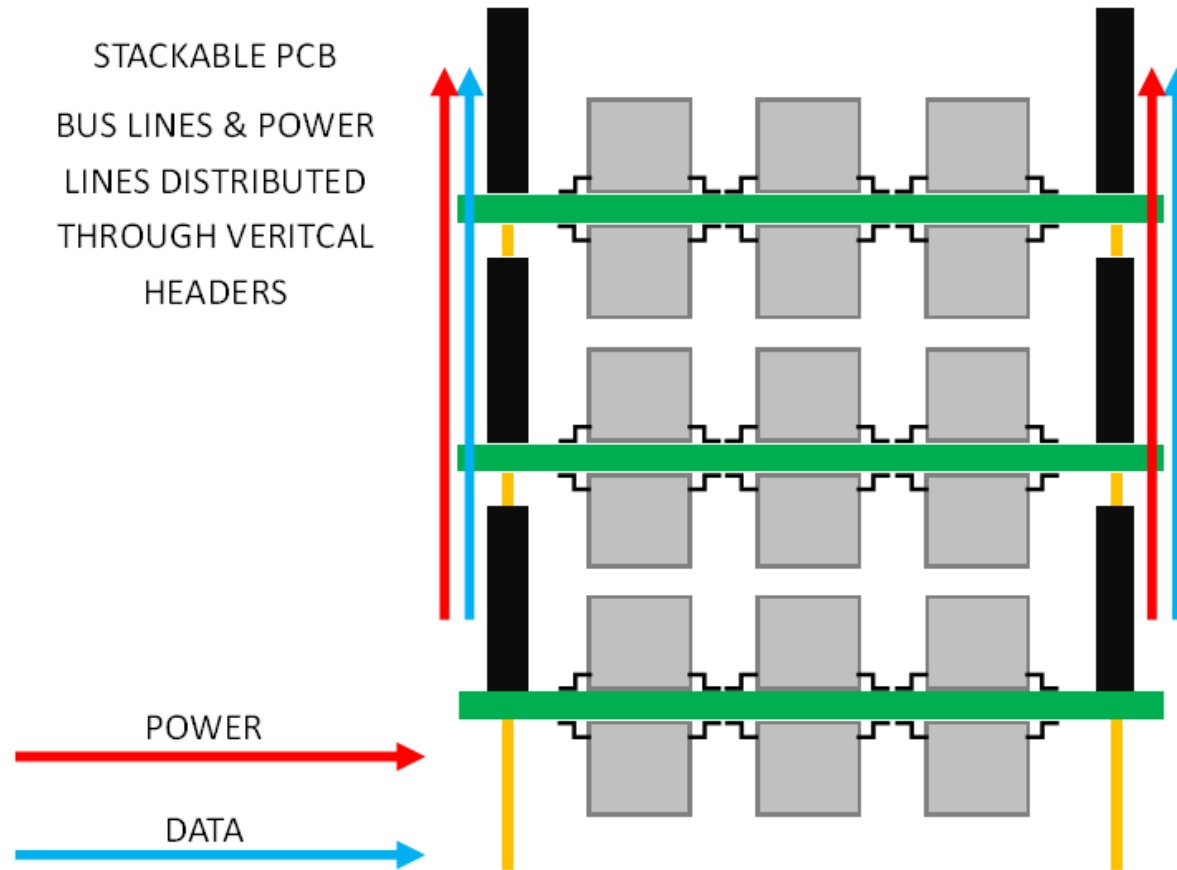


Figure 2 - Block Diagram of Board Usage for Stacked Bus Lines