Silver Engineering Inc.

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D-SS SERIES BREAKOUT BOX

Features

- Available in Standard Density 9D, 15D, 25D, 37D, and 50D as well as in High Density 15DD, 26DD, 44DD, 62DD, 78DD, and 104DD
- D connectors are stainless-steel shell Positronic Industries, Inc ®.
- Test points are 0.080" Tip Jack (typical voltmeter size probes), Mini Banana Jack (0.104"), or Banana Jack (4mm).
- Jack spacing of 0.5" supports shorting plugs for Tip and Mini Banana Jacks.
- Available with standard toggle, locking toggle, or without toggle switches.
- Toggle switches are rated for Low Level and Power signals.
- Signal connectivity via Printed Circuit Board; no wires.
- All units are subjected to a 500VDC Hipot Test
- Heavy-duty copper signal traces.
- Housed in a heavy duty 0.080 thick aluminum box with welded corners.
- Carry handles help prevent damage to switches.
- Box is painted with two coats of Epoxy paint.

Figure 1 44DD Breakout Box with switches SE-01028-3

Description

Silver Engineering's D-SS Series Breakout Box is a heavy duty break out box designed to withstand the abuses of the test environment. The heavy-duty construction and the use of high-quality stainless-steel connector shells and components ensure these units will last for years.

The D-SS Series Breakout Boxes incorporate a printed circuit board for all connectivity.

D-SS Series Breakout Boxes use a color-coding scheme as an aid. The Red jacks connect to the Red TP Side connector with pin contacts and the Black jacks connect to the Black TP Side connector with socket contacts. The D-SS Series Breakout Boxes can be ordered with or without switches and tip, mini-banana (0.104") or banana (4mm) jacks.

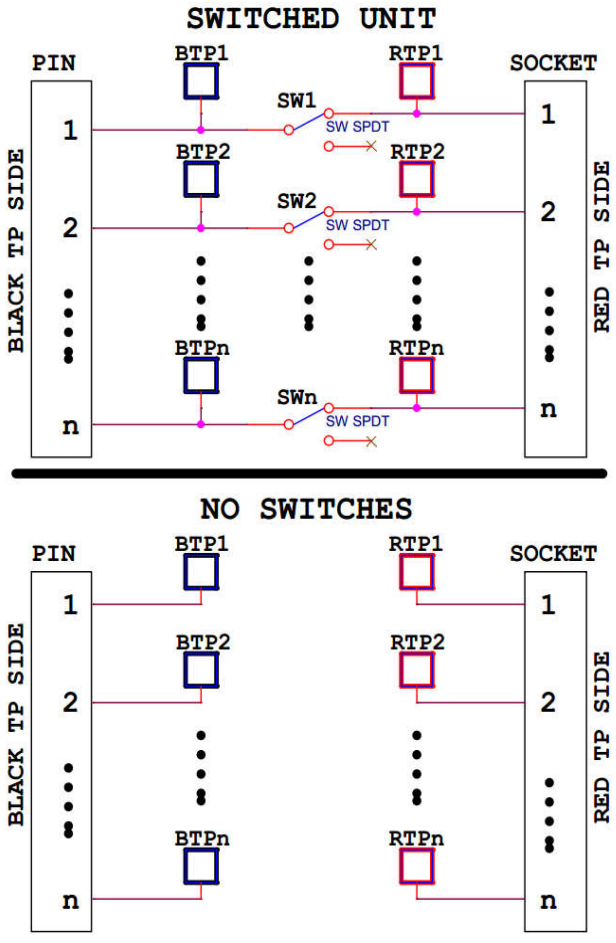

Figure 2 Block diagrams, with and without toggle switches

Specifications

Connector Type	Part Number X=Option	MAX Current NOTE 1 NOTE 3	MAX Voltage NOTE 4	MAX Trace Length NOTE 2	DIMENSIONS		
					LENGTH	WIDTH	HEIGHT
9D	SE-01021-X	5.2A	28VDC/70Vrms	14"	7.25"	6"	2.7"
15D	SE-01022-X	5.2A	28VDC/70Vrms	16"	7.25"	6"	2.7"
25D	SE-01023-X	4.55A	28VDC/70Vrms	16.8"	7.25"	8"	2.7"
37D	SE-01024-X	4.55A	28VDC/70Vrms	22"	9.25"	9"	2.7"
50D	SE-01025-X	5A	28VDC/70Vrms	36"	11.25"	8"	2.7"
15DD	SE-01026-X	4.3A	28VDC/70Vrms	15"	7.25"	6"	2.7"
26DD	SE-01027-X	5A	28VDC/70Vrms	20"	7.25"	8"	2.7"
44DD	SE-01028-X	5A	28VDC/70Vrms	26"	11.25"	9"	2.7"
62DD	SE-01029-X	4.9A	28VDC/70Vrms	30"	13.25"	10"	2.7"
78DD	SE-01030-X	5A	28VDC/70Vrms	36"	13.25"	11"	2.7"
104DD	SE-01031-X	4.9A	28VDC/70Vrms	38"	15.45"	12"	2.7"

-X OPTIONS

Option	Description
-1	0.080” Pin Tip Jacks and Switches
-2	Mini Banana (0.104”) Jacks and Switches
-3	4mm (0.5” Spaced) Banana Jacks and Switches
-11	0.080” Pin Tip Jacks and NO Switches
-12	Mini Banana Jacks (0.104”) and NO Switches
-13	4mm (0.5” Spaced) Banana Jacks and NO Switches
-21	0.080” Pin Tip Jacks and Locking Switches
-22	Mini Banana Jacks (0.104”) and Locking Switches
-23	4mm (0.5” Spaced) Banana Jacks and Locking Switches

NOTES

Note Number	Description
1	Maximum recommended current for one circuit active. De-rate current linearly to 25% of maximum recommended current if all circuits active simultaneously. For I = max. recommended current, N = total number of device circuits, n = circuits used, i = de-rated current each circuit, i = I+(0.75*I*(n-1)/(1-N)).
2	Measurement covers the full circuit from RTP connector to BTP connector including the switch.
3	For locking switches, see current column or 5A. Whichever is less.
4	28VDC/70Vrms is recommended for safe handheld use. All units are subject to a 500VDC Hipot test.

All specifications are subject to change without notice.

Connectors and Jack Socket Screws

- All our standard Breakout Boxes use high quality stainless steel Positronic™ Connectors.
- Standard Density Breakout Boxes (9D, 15D, 25D, 37D, and 50D) pin contact connectors use Positronic™ MD series with Stainless Steel Shell. Example: 50D (SE-01025) uses a MD50M4R700S.
- Standard Density Breakout Boxes (9D, 15D, 25D, 37D, and 50D) socket contact connectors use Positronic™ MDX series with Stainless Steel Shell. Example: 50D (SE-01025) uses a MDX50S4R700S.
- High Density Breakout Boxes (15DD, 26DD, 44DD, 62DD, 78DD and 104DD) use Positronic™ DD series with Stainless Steel Shell. Example: 104HDD (SE-01031) uses a DD104M4R700S.
- All our Breakout Boxes use Keystone™ Jack Socket Screws part number 7250. These are stainless steel material.

Non-Standard Options

- Custom Breakout Boxes per your specifications. Contact Silver Engineering Inc for non-standard options or custom requirements.