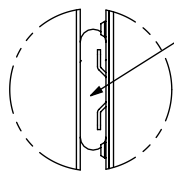


DO NOT
SCALE FROM
THIS PRINT

**THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING**

**DESIGNED & DIMENSIONED
IN MILLIMETERS[INCHES]**



REMOVE O-RINGS BETWEEN INTERPOSER
AND BACKER PLATE BEFORE USE

DETAIL 'C'
SCALE 4 : 1

BE71A-X-XXXX-X-X-X-XX-XXXX

TRANSMISSION TYPE
-S: STRIPLINE
-M: MICROSTRIP

END 2 CONNECTOR
(SEE TABLE 2, SHT 3)

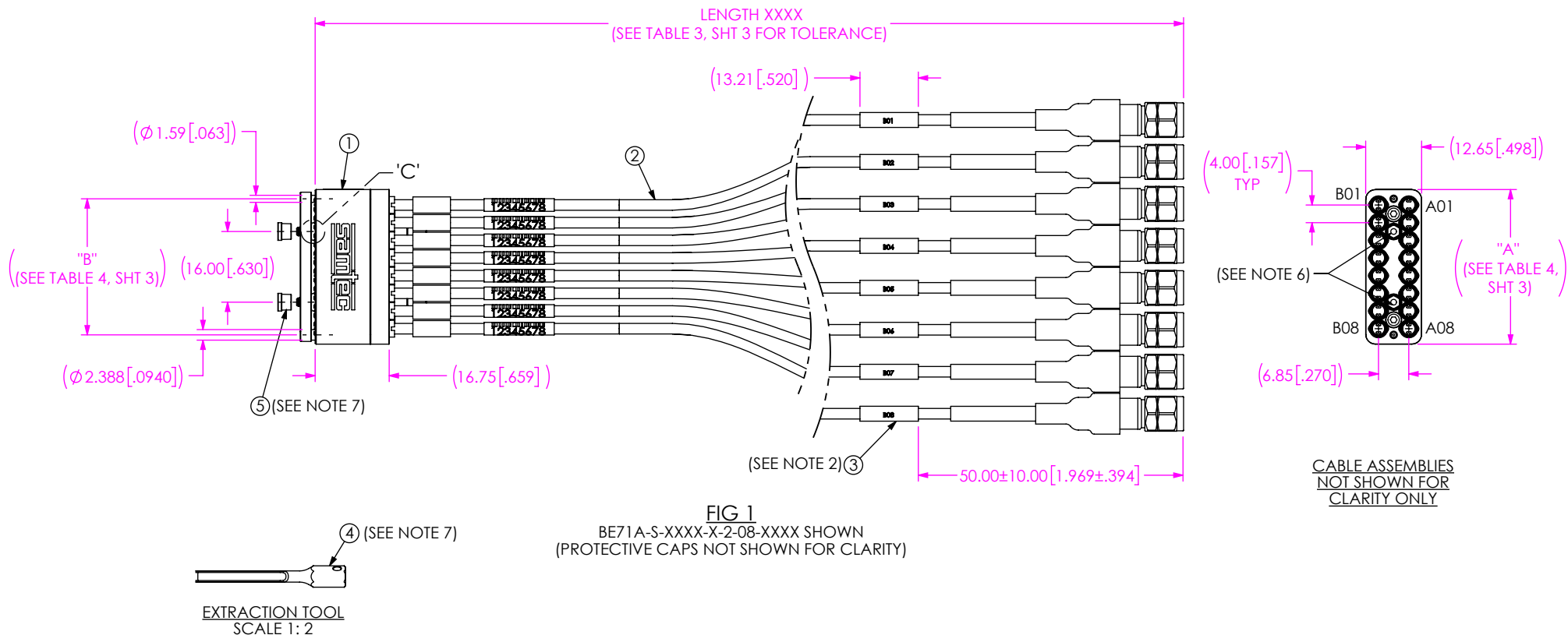
PHASE MATCHING SPEC (RANGE)
-H: HALF PICO-SECOND
-1: 1 PICO-SECOND
-2: 2 PICO-SECONDS
-5: 5 PICO-SECONDS
-N: NO PHASE MATCHING(SEE NOTE 9)

OVERALL ASSEMBLY LENGTH (OAL)
XXXX (MILLIMETERS)
(0152 MIN)
(SEE NOTE 5)

NO OF POSITION (PER ROW)
-04, -08, *-03, *-06, *-10, *-12, *-14, *-16
(SEE TABLE 4, SHT 3) (*= NOT RELEASED)

NO OF ROWS
-2

PHASE MATCHING LOCATION
-R: IN-ROW (SEE TABLE 6)
-A: ACROSS-ROW (SEE TABLE 5)



CABLE ASSEMBLIES
NOT SHOWN FOR
CLARITY ONLY

NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. PRINT CABLE POSITION ON WHITE HEAT SHRINK AND APPLY TO CABLES AS SHOWN.
3. FERRULE AND SPRING ARE FREE FLOATING AND ARE NOT STATIONARY.
4. ASSEMBLY TO HAVE END 1 WRAPPED IN ANTI-STATIC BUBBLE WRAP
END 2 ASSEMBLED WITH PROTECTIVE CAPS.
5. CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED S.I. TEST DATA.
6. WHEN MOUNTED TO PCB, TIGHTEN PCB SCREW TO 2.0 - 2.5 IN-LBS USING
3mm HEX TOOL (NOT PROVIDED).
7. ITEM 4 & 5 TO BE PACKAGED IN ESD BAG (BG-04-06-Z) AND INCLUDED WITH ASSEMBLY.
8. RECOMMEND PCB THICKNESS: 0.06IN - 0.16IN (SEE SHEET 4).
9. FOR NO PHASE MATCHING SPEC, CABLE ASSEMBLY READ AS BE71C-X-XXXX-N-01-XXXX,
QUANTITY = ROW X POS.

c:\enterprise\dwg\MISC\MKTG\BE71A-X-XXXX-X-X-X-XX-XXXX-MKLT.DRWR

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MATERIAL:

HOUSING, COVER, SCREWS,
NUTS, SHELL, RETAINER, FERRULE, PIN, BODY: BRASS
ALIGNMENT PINS, SCREWS, SHELLS, CABLE BODY, C-RING,
NUT INSERT, BACKER PLATE: STAINLESS STEEL
PCB PIN: ALLOY STEEL
INTERPOSER SCREW: BECU
O-RING: SILICONE RUBBER

SHEET SCALE: 0.75:1

DO NOT SCALE DRAWING

DESCRIPTION:

samtec

520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

BE71A GANGED ASSEMBLY

DWG. NO.

BE71A-X-XXXX-X-X-X-XX-XXXX

BY: HENRY W

2025/4/30

SHEET 1 OF 4

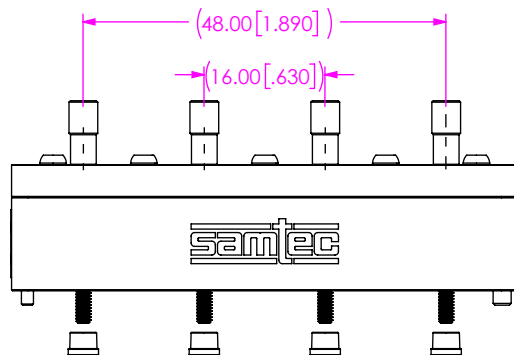


FIG 2
BE71A-S-XXXX-X-2-16-XXXX SHOWN
CABLE ASSEMBLIES NOT SHOWN FOR CLARITY

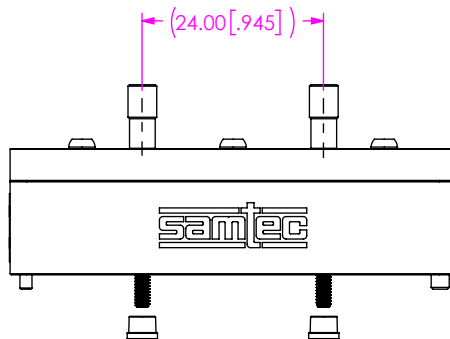


FIG 3
BE71A-S-XXXX-X-2-14-XXXX SHOWN
CABLE ASSEMBLIES NOT SHOWN FOR CLARITY

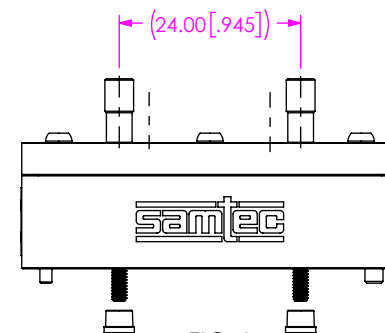


FIG 4
BE71A-S-XXXX-X-2-12-XXXX SHOWN
CABLE ASSEMBLIES NOT SHOWN FOR CLARITY

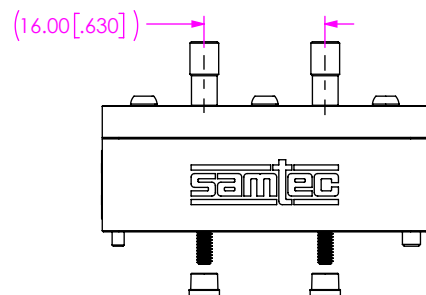


FIG 5
BE71A-S-XXXX-X-2-10-XXXX SHOWN
CABLE ASSEMBLIES NOT SHOWN FOR CLARITY

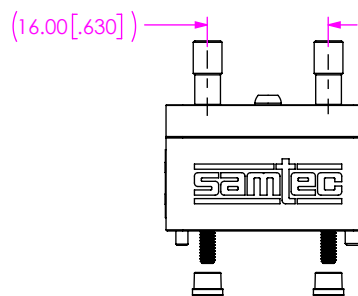


FIG 6
BE71A-S-XXXX-X-2-06-XXXX SHOWN
CABLE ASSEMBLIES NOT SHOWN FOR CLARITY

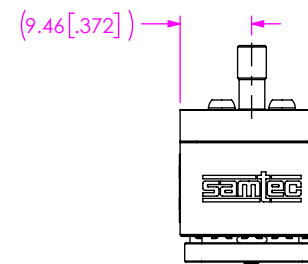


FIG 7
BE71A-S-XXXX-X-2-04-XXXX SHOWN
CABLE ASSEMBLIES NOT SHOWN FOR CLARITY

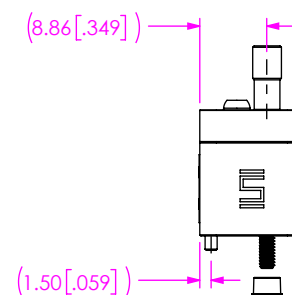


FIG 8
BE71A-S-XXXX-X-2-03-XXXX SHOWN
CABLE ASSEMBLIES NOT SHOWN FOR CLARITY

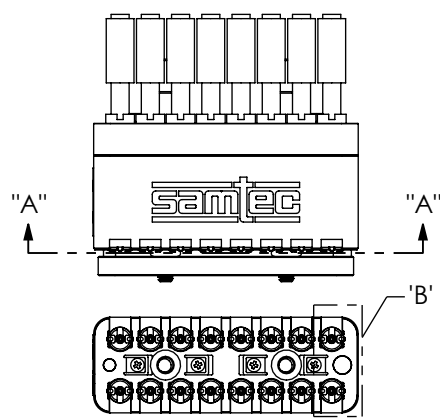
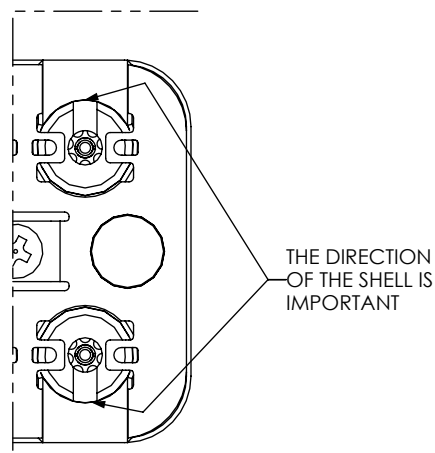


FIG 9
BE71A-M-XXXX-X-2-08-XXXX SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)
END 2 NOT SHOWN FOR CLARITY



DETAIL 'B'
SCALE 4 : 1

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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION: BE71A GANGED ASSEMBLY

DWG. NO. BE71A-X-XXXX-X-X-X-XX-XXXX

BY: HENRY W 2025/4/30 SHEET 2 OF 4

TABLE 2								
END OPTION	SERIES	GENDER	FINISH			SUBTRACTOR	CONNECTOR KIT P/N	FIGURE
			CENTER CONTACT	OUTER CONTACT	SOLDER FERRULE	"D"		
-18SP	1.85 MM	PLUG	50µ" GOLD	PASSIVATED	50µ" GOLD	9.00 [.354]	PRF18-P-C-EP-071B-SS-2	SHT 4, FIG 4
-18BJ	1.85 MM	JACK	50µ" GOLD	PASSIVATED	50µ" GOLD	10.72 [.422]	PRF18-J-C-EP-071B-BS-X	SHT 4, FIG 5
-92SP	2.92 MM	PLUG	50µ" GOLD	PASSIVATED	30µ" GOLD	9.78 [.385]	PRF92-P-C-EP-071B-SS	SHT 5, FIG 6

TABLE 3: FINAL ASSEMBLY LENGTH TOLERANCE

OVERALL LENGTH	TOLERANCE
0152-0200 [5.98-7.87]	+3.0 [.12] / -0.0 [.00]
0201-0500 [7.91-19.69]	+5.0 [.20] / -0.0 [.00]
0501-9999 [19.72-393.66]	+10.0 [.39] / -0.0 [.00]

TABLE 4

No OF POSITIONS	"A"	"B"
-03	13.80 [0.543]	N/A
-04	19.00 [0.748]	14.80 [0.583]
-06	27.00 [1.063]	22.80 [0.898]
-08	35.00 [1.378]	30.80 [1.213]
-10	43.00 [1.693]	38.80 [1.528]
-12	49.80 [1.961]	43.40 [1.709]
-14	59.00 [2.323]	54.80 [2.157]
-16	67.00 [2.638]	62.80 [2.472]

TABLE 5 - PHASE MATCHED PAIRS

PAIR NO.	POSITION	POSITION
1	A01	B01
2	A02	B02
3	A03	B03
4	A04	B04
5	A05	B05
6	A06	B06
7	A07	B07
8	A08	B08
9	A09	B09
10	A10	B10
11	A11	B11
12	A12	B12
13	A13	B13
14	A14	B14
15	A15	B15
16	A16	B16

CAUTION: EACH PAIR OF CABLES TO BE PHASE MATCHED PER CALLOUT. IF RE-WORKED, THE ENTIRE PAIR MUST BE REPLACED.

TABLE 6 - PHASE MATCHED PAIRS

PAIR NO.	POSITION	POSITION
1	A01	A02
2	A03	A04
3	A05	A06
4	A07	A08
5	A09	A10
6	A11	A12
7	A13	A14
8	A15	A16
9	B01	B02
10	B03	B04
11	B05	B06
12	B07	B08
13	B09	B10
14	B11	B12
15	B13	B14
16	B15	B16

CAUTION: EACH PAIR OF CABLES TO BE PHASE MATCHED PER CALLOUT. IF RE-WORKED, THE ENTIRE PAIR MUST BE REPLACED.

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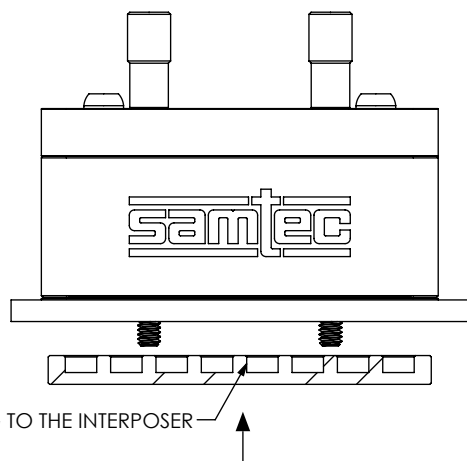


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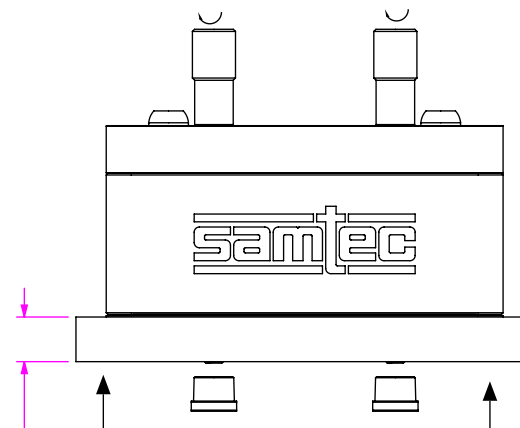
DESCRIPTION: BE71A GANGED ASSEMBLY

DWG. NO. BE71A-X-XXXX-X-X-X-XX-XXXX

BY: HENRY W 2025/4/30 SHEET 3 OF 4



DIRECTION OF BACKER PLATE
(PCB THICKNESS < .08 INCH)



DIRECTION OF PCB NUTS
(PCB THICKNESS .08 TO .16 INCH)

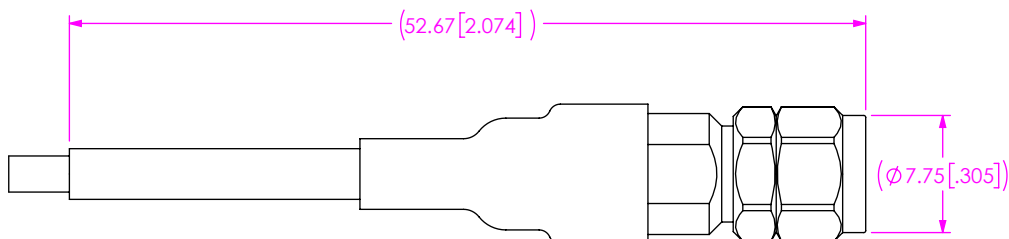


FIG 10
-18SP SHOWN
(CABLE CUT FOR CLARITY ONLY)

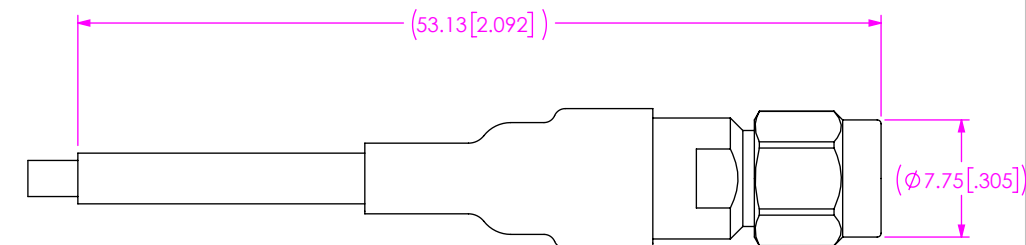


FIG 12
-92SP SHOWN
(CABLE CUT FOR CLARITY ONLY)

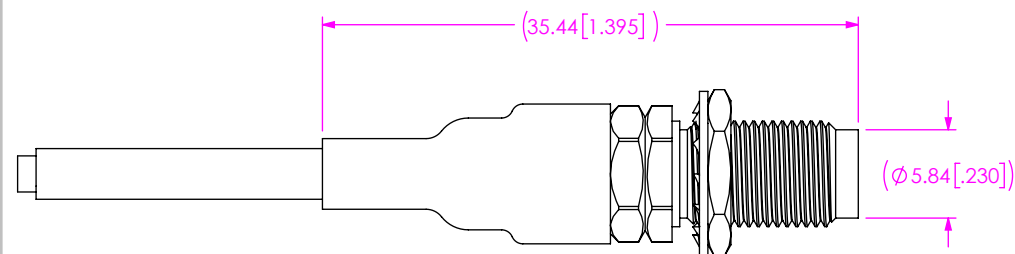


FIG 11
-188J SHOWN
(CABLE CUT FOR CLARITY ONLY)

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