

Sam Woo Electronics

Micro BNC ***and BNC 75ohm***



Contents

BNCCHD – Micro BNC

BNCC – BNC 75Ω



Sam Woo Electronics Co., Ltd.
www.isamwoo.com

Visit us in the World Wide Web at :
www.isamwoo.com

Headquarter

Sam Woo Electronics Co., Ltd.
148, Gongdan 1-daero 196beon-gil,
Siheung-si, Gyeonggi-do, 15098
Republic of Korea
Tel +82-31-432-0035
Fax +82-31-433-6167
www.isamwoo.com
info@isamwoo.com

Asia

E-valucon HK Co., Ltd.
利發光有限公司
Room 1205, 12/F, Tower 1 Silvercord,
30 Canton Road, Tsim Sha Tsui,
Kowloon, Hong Kong
Tel +852-3971-5024
Fax +852-2787-5088
www.evalucon.com
info@evalucon.com

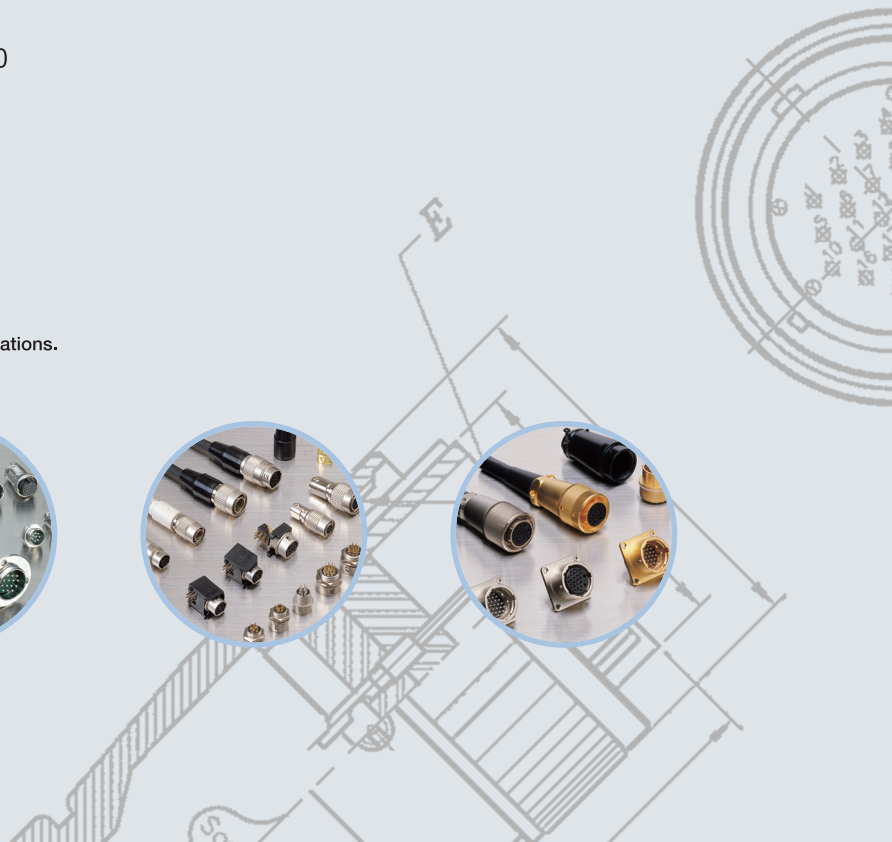
North America / Europe

E-valucon, Inc.
16 Technology Drive Suite 168
Irvine, CA 92618 USA
Tel +1-949-450-0080
Fax +1-949-450-0033
www.evalucon.com
info@evalucon.com

Japan

Trust Components, Co., Ltd.
Atsugi Axt Maintower 11F
3050 Okada Atsugi-city
Kanagawa 243-0021, Japan
株式会社トラストコンポーネンツ
〒243-0021 神奈川県厚木市岡田3050
厚木アクストメインタワー11F
Tel +81-4-6229-3136
Fax +81-4-6220-2917
www.trust-comp.co.jp
morimoto@trust-comp.co.jp

All dimensions are in millimeters.
Specifications subject to change without notice.
Consult Sam Woo Electronics for the latest specifications.





About Sam Woo

Sam Woo Electronics Co., Ltd., established in 1981, is a manufacturer of circular connectors, antennas and cable assemblies for audio / video broadcasting, securities, medical device, FA vision sensors, telecommunication and general application industries.

MISSION

Connecting the World

VISION

Changing the Landscape of Work Place

STRATEGY

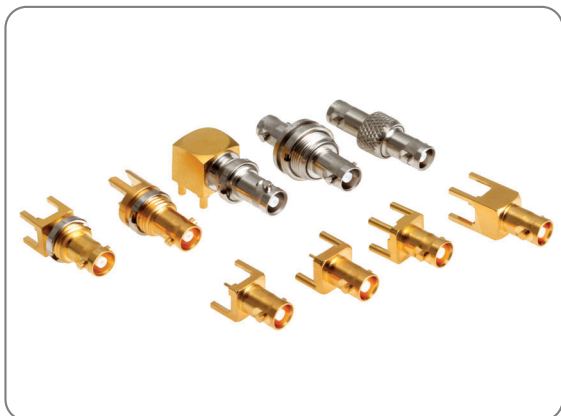
Succeed by Being Good-to-Work-with

Certificate

System Certificate	ISO 9001, ISO14001, ISO13485
Environment Compliance	RoHS, PFOS, REACH
Product Quality Certificate	UL, CE

Brief History

2016	Completed "Smart Factory Business" with Sam Sung Electronics.
2015	Completed "Industry Innovation Movement 3.0" from a Korea Chamber of Commerce & Industry
2014	Selected as a "Woman-friendly Enterprises" by Shiheung Province
2014	Selected as a "Best Job Enterprises" by Gyeonggi Province
2013	Acquired Eco-Partner Certificate with Samsung Electronics Co., Ltd.
2012	Established Cable Assembly department and acquired ISO9001 and ISO14001
2012	Acquired ISO13485 Certificate
2011	Selected as Gyeonggi Internet Trade Frontier Business
2008	Selected as a INNO-BIZ from Small & Medium Business Administration
2008	Selected as a member of Gyeonggi Venture Business Association(GIVA)
2008	Acquired UL Certificate (E 312221)
2006	Established partnership with E-valucon HK
2005	Received LG Eco Partner Certificate
2005	RoHS Regulation Compliance applied to all exporting items
2004	Adopted ERP System
2003	Acquired KSA14001 / ISO14001 Certificates
2003	Selected as a "Promising Small & Medium - Size Enterprises 2003" by Gyeonggi Province
2003	Registered "R&D Center" (No. 20031233) certified Korea Industrial Technology Association (KITA)
2003	Acquired UL Certificate (E234985)
2002	Awarded "Government Support Program for Exporting Enterprises" for three consecutive years
2002	Established partnership with Trust Components, Ltd. (Japan) and E-valucon, Inc. (USA)
2000	Issued patent for SIM card connector
1999	Constructed a new plant in Shihwa Industrial Complex, South Korea
1997	Acquired KSA9001/ISO9001 Certifications
1994	Issued 20 patents for cable TV connector
1981	Established



Features

- Top-quality performing 75 Ω BNC
- High density
- Quick and reliable connection

Applications

- TV broadcasting
- CCTV
- CATV transmitters
- Telecommunications
- Computer networking
- Medical imaging equipment

■ Part Numbering

Products	Product Number	Description	Impedance (Ohms)
Plug	BNCCHD-PC-1505A-3	HD-BNC PCB Plug, Straight	75 Ω
Jack	BNCCHD-J3R-PCB	HD-BNC PCB Jack, Straight-3Legs	75 Ω
	BNCCHD-J3R1-PCB	HD-BNC PCB Jack, Straight-3Legs	
	BNCCHD-J4R-PCB	HD-BNC PCB Jack, Straight	
	BNCCHD-J4R1-PCB	HD-BNC PCB Jack, Straight	
	BNCCHD-BJ4R-PCB	HD-BNC PCB Jack, Straight, Bulkhead	
	BNCCHD-BJ3RE-PCB	HD-BNC PCB Jack, Straight, Bulkhead	
	BNCCHD-LBJ4R-PCB	HD-BNC PCB Jack, Right-angle, Bulkhead	
Adapter	BNCCHD-A-JJ	HD-BNC Jack to HD-BNC Jack	75 Ω
	BNCCHD-BA-JJ	HD-BNC Jack to HD-BNC Jack, Isolated, Bulkhead	

■ Major Performances

Impedance (Ohms)	75 Ω	Insulation resistance	10,000M Ω min	
Frequency range	DC-6GHz	Contact resistance	Center Contact	5m Ω Max
Voltage rating	170V		Outer Contact	2,5m Ω Max
Dielectric withstanding voltage	500 VRMS	V.S.W.R	Straight	1,2
			Right-angle	1,2
Mating	Bayonet type	Durability	500 cycle	

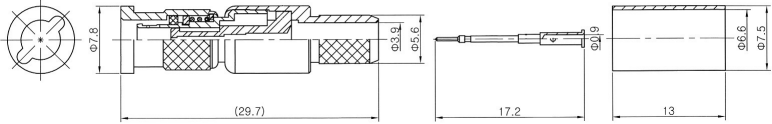
■ Material Used / Finish

General		Material	Finish
Body		Brass	Ni or Gold Plating
Insulator		PTFE	White
Contacts	Male	Brass	Gold Plating
	Female	Cu-Be	Gold Plating

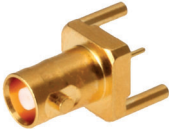
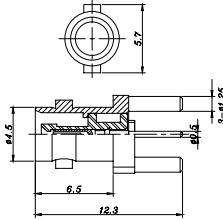
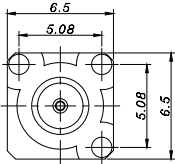
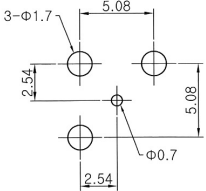
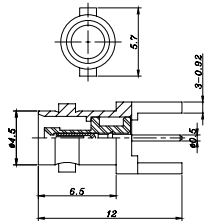
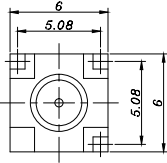
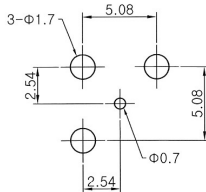
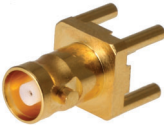
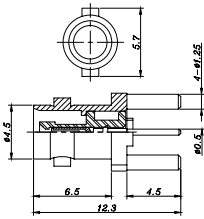
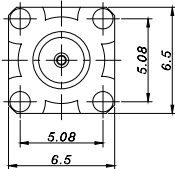
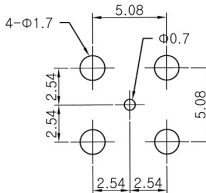
Specifications subject to change without notice. Consult Sam Woo Electronics for the latest specifications.

■ BNCCHD PLUG

Up to 6GHz

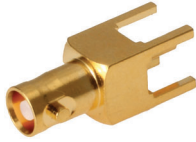
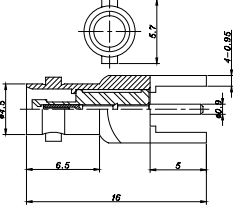
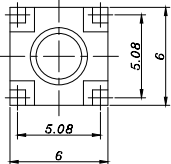
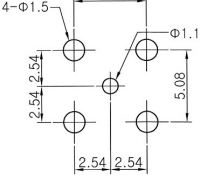
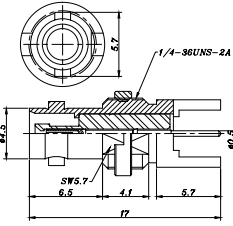
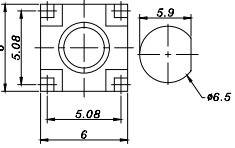
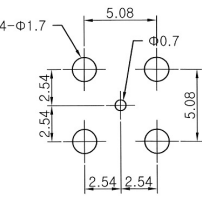
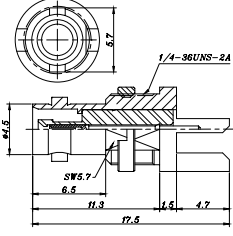
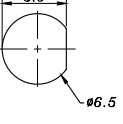
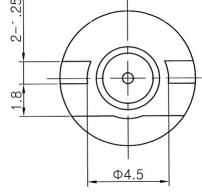
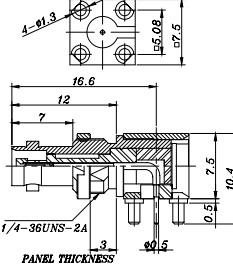
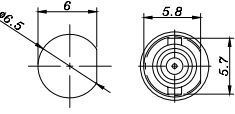
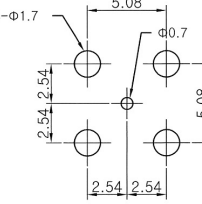
Product Number	Picture	Drawing
BNCCHD-PC-1505A-3		

■ BNCCHD JACK

Product Number	Picture	Drawing	Panel hole layout	PCB hole layout
BNCCHD-J3R-PCB				
BNCCHD-J3R1-PCB				
BNCCHD-J4R-PCB				

■ BNCCHD JACK

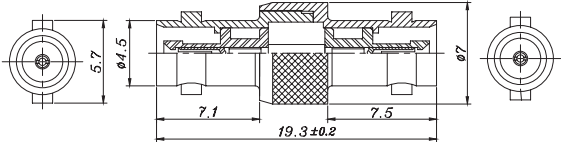
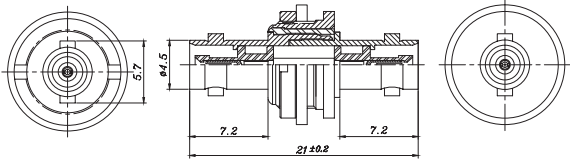
Up to 6GHz

Product Number	Picture	Drawing	Panel hole layout	PCB hole layout
BNCCHD-J4R1-PCB				
BNCCHD-BJ4R-PCB				
BNCCHD-BJ3RE-PCB				
BNCCHD-LBJ4R-PCB				

Specifications subject to change without notice. Consult Sam Woo Electronics for the latest specifications.

■ BNCCHD ADAPTER

Up to 6GHz

Product Number	Picture	Drawing
BNCCHD-A-JJ		
BNCCHD-BA-JJ		



Features

- Top-quality performing 75 Ω BNC
- Quick, reliable connection
- Intermateable with 50 Ω series

Applications

- TV broadcasting
- CCTV
- Satellite receivers
- Medical imaging equipment, etc.
- CATV transmitters
- Telecommunications
- Computer networking

■ BNC Part Numbering (plug & adapter)



Connector Series

BNCC-BNC 75 Ω series

Body Type

PC : Plug (crimp type)

APJ : Adapter (plug-jack)

AJJ : Adapter (jack-jack)

APP : Adapter (plug-plug)

Cable code

Code	Cable in use
1,5C	1,5C 2V
2,5C	2,5C 2V
3C	3C 2V
5C	5C 2V
6CHF	6CHFB
7C	7C 2V
7CHF	7CHF
6	RG6/U
59U	RG59/U, Belden 1505A
179U	RG179/U
1855A	Belden 1855A
VK2	Percon VK2
VK5/6,0	Percon VK5/0,6
VK6/0,8	Percon VK6/0,8
VK7/1,0	Percon VK7/1,0
VK95	Percon VK95

Frequency

1 : 1GHz 3 : 3GHz

Boot Color Code

BK - Black	BU - Blue	BR - Brown
GY - Gray	GN - Green	OR - Orange
PR - Purple	RD - Red	WH - White
YE - Yellow		

Boot Code

01 : RG - 179, 1,5C 2V
 02 : 2,5C 2V, 3C 2V
 03 : 1505A, RG - 59/U

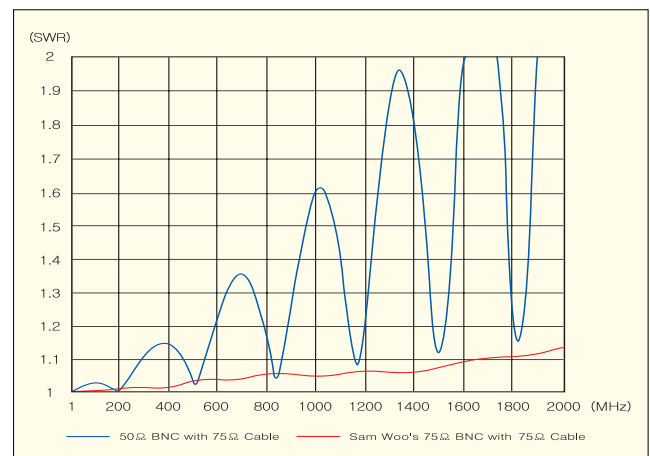
■ Major Performance

Impedance	75 Ω	Insulation resistance	5,000M Ω	
Frequency range	0~3 GHz	Contact resistance	Center Contact	3,5m Ω max
Voltage rating	500V R,M,S		Outer Contact	2,5m Ω max
Dielectric withstanding voltage	1,500V@sea level	V,S,W,R	<1,2	

■ BNC 75 Ω Advantage

Why use BNC 75 Ω Connectors?

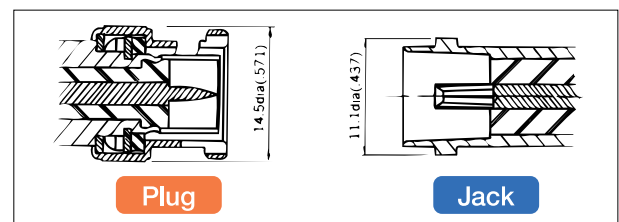
The 50 Ω BNC connector that terminates to the 75 Ω video coax is not sufficient in producing maximum performance for today's high analog and digital transmission, causing a mismatch that results in signal degradation and reduction in picture quality. The data on the right shows that the 75 Ω connectors outperform the 50 Ω in terms of VSWR. Thirty-centimeter long cables with both BNC ends are used to generate the data.



■ Material Used / Finish

General		Material	Finish
Body		Zinc alloy or Brass	Ni plating
Insulator		PTFE	White
Contacts	Male	Brass	Gold plating
	Female	Beryllium copper	Gold plating

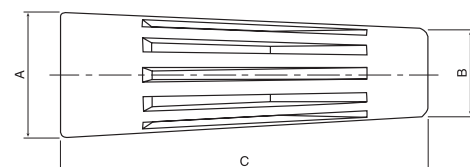
■ Interface Dimension



■ 1GHz and 3GHz Compared



■ Boot Dimension / Part Numbering(for boot only)



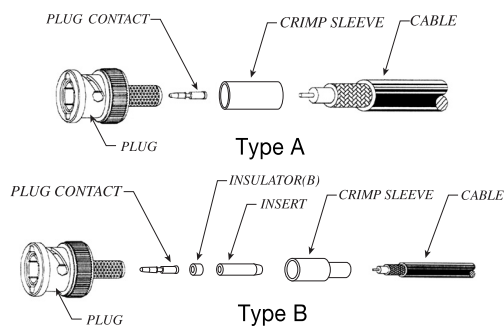
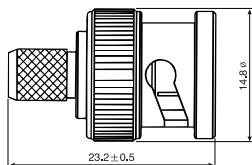
Model	Cable	ϕ A	ϕ B	C
BNC-color 01	RG-179/U, 1,5C 2V	12,5	5,5	28
BNC-color 02	2,5C 2V, 3C 2V	12,5	6	32
BNC-color 03	1505A, RG-59/U	12,5	8,5	36



Color Code

BK - Black	BU - Blue	BR - Brown
GY - Grey	GN - Green	OR - Orange
PR - Purple	RD - Red	WH - White
YE - Yellow		

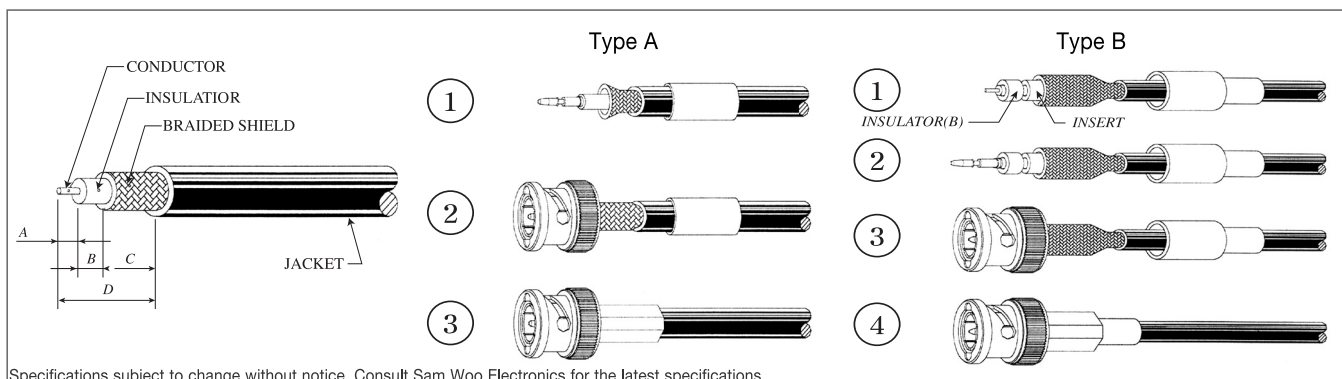
■ BNC Plugs



No.	Product Number	Cable Type	Frequency	Cable Stripping(mm)				Assembly Type
				A	B	C	D	
1	BNCC-PC-1,5C-1	1,5C 2V	1	3,5	5,5	8	17	B
2	BNCC-PC-2,5C-1	2,5C 2V	1	3,5	5,5	7	16	A
3	BNCC-PC-3C-1	3C 2V	1	3,5	5,5	7	16	A
4	BNCC-PC-5C-1	5C 2V	1	3	4	8	15	A
5	BNCC-PC-6CHF-1	6CHFB	1	3,5	3,5	9	16	A
6	BNCC-PC-7C-1	7C 2V	1					
7	BNCC-PC-7CHF-1	7CHF	1	3,5	3,5	9	16	A
8	BNCC-PC-6-1	RG6/U	1					
9	BNCC-PC-59U-1	RG59/U, Belden 1505A	1	3,5	5,5	7	16	A
10	BNCC-PC-179U-1	RG179/U	1	3,5	5,5	8	17	B
11	BNCC-PC-1,5C-3	1,5C 2V	3	3	4	8	15	B
12	BNCC-PC-2,5C-3	2,5C 2V	3	3	4	7	14	A
13	BNCC-PC-3C-3	3C 2V	3	3	4	7	14	A
14	BNCC-PC-5C-3	5C 2V	3					
15	BNCC-PC-6CHF-3	6CHFB	3	3	3	9	15	A
16	BNCC-PC-7CHF-3	7CHF	3	3	3	9	15	A
17	BNCC-PC-59U-3	RG59/U, Belden 1505A	3	3	3	9	15	B
18	BNCC-PC-179U-3	RG179/U	3	3	4	8	15	B
19	BNCC-PC-1855A-3	Belden 1855A	3	3	3	9	15	A
20	BNCC-PC-VK2-4	Percon VK2	3	3	4	7	14	B
21	BNCC-PC-VK5/0,6-3	Percon VK5/0,6	3	3	4	7	14	A
22	BNCC-PC-VK6/0,8-3	Percon VK6/0,8	3	3	4	7	14	A
23	BNCC-PC-VK7/1,0-3	Percon VK7/1,0	3	3	4	7	14	A
24	BNCC-PC-VK9-3	Percon VK9	3	3	4	7	14	A

■ Cable Assembly Instruction

- Use above cable stripping dimensions



■ Crimp Tools



Sam Woo Tool (SW-HT)



Tool Die



Canare Tool (TC-1)

Tool	Color of Handles	Tool Die										
SW-HT	Red	HTD-02	A	5,87	B	1,36	C	6,48	D	1,59	E	5,41
TC-1	Blue	TCD-5CFB						8,05		1,2		
		TCD-7CA						10,23		1,93		

No.	Product Number	Cable Type	Die Spec(mm)					Tool	Tool Die	Tool Maker
			Sleeve			Contact				
			A	C	E	B	D			
1	BNCC-PC-1,5C-1	1,5C 2V			●	●		SW-HT	HTD-02	Sam Woo
2	BNCC-PC-2,5C-1	2,5C 2V	●			●		SW-HT	HTD-02	Sam Woo
3	BNCC-PC-3C-1	3C 2V	●			●		SW-HT	HTD-02	Sam Woo
4	BNCC-PC-5C-1	5C 2V		●		●				
5	BNCC-PC-6CHF-1	6CHFB		●		●		TC-1	TCD-7CA	Canare
6	BNCC-PC-7C-1	7C 2V								
7	BNCC-PC-7CHF-1	7CHF		●			●	TC-1	TCD-7CA	Canare
8	BNCC-PC-6-1	RG6/U								
9	BNCC-PC-59U-1	RG59/U, Belden 1505A		●			●	SW-HT	HTD-02	Sam Woo
10	BNCC-PC-179U-1	RG179/U			●	●		SW-HT	HTD-02	Sam Woo
11	BNCC-PC-1,5C-3	1,5C 2V			●	●		SW-HT	HTD-02	Sam Woo
12	BNCC-PC-2,5C-3	2,5C 2V	●			●		SW-HT	HTD-02	Sam Woo
13	BNCC-PC-3C-3	3C 2V	●			●		SW-HT	HTD-02	Sam Woo
14	BNCC-PC-5C-3	5C 2V								
15	BNCC-PC-6CHF-3	6CHFB		●			●	TC-1	TCD-7CA	Canare
16	BNCC-PC-7CHF-3	7CHF		●			●	TC-1	TCD-7CA	Canare
17	BNCC-PC-59U-3	RG59/U, Belden 1505A		●			●	SW-HT	HTD-02	Sam Woo
18	BNCC-PC-179U-3	RG179/U			●	●		SW-HT	HTD-02	Sam Woo
19	BNCC-PC-1855A-3	Belden 1855A		●		●		SW-HT	HTD-02	Sam Woo
20	BNCC-PC-VK2-4	Percon VK2			●	●		SW-HT	HTD-02	Sam Woo
21	BNCC-PC-VK5/0,6-3	Percon VK5/0,6			●	●		SW-HT	HTD-02	Sam Woo
22	BNCC-PC-VK6/0,8-3	Percon VK6/0,8			●	●		SW-HT	HTD-02	Sam Woo
23	BNCC-PC-VK7/1,0-3	Percon VK7/1,0		●		●		TC-1	TCD-5CFB	Canare
24	BNCC-PC-VK9-3	Percon VK9		●		●		TC-1	TCD-5CFB	Canare

■ Major Performance

Up to 3GHz

Product Number	Description	Stud position	Panel Mount	V,S,W,R
BNCC-JPR-LPCB	Right angle	Horizontal	Front : M2,6 screw	Up to 1GHz : 1,1 or less Up to 3GHz : 1,2 or less
BNCC-2JPR-LPCB	Right angle,Dual Jack	Horizontal	Front : M2,6 screw	Up to 1GHz : 1,1 or less Up to 2,5GHz : 1,2 or less
BNCC-JBR-LPCB	Right angle,Low-cost	Vertical	Front : Hex nut & lock washer	Up to 1GHz : 1,1 or less Up to 2,5GHz : 1,2 or less

■ **75 Ω BNC PCB Mount Receptacle** Screw type

Product Number	Picture	Drawing	Panel hole layout	PCB hole layout
BNCC-JPR-LPCB				
			Screw M2,6 t:1,6mm max	Screw M2,6 t:2,0mm max
BNCC-2JPR-LPCB				
			Screw M2,6 t:1,6mm max	Screw M2,6 t:1,6mm max

■ **75 Ω BNC PCB Mount Receptacle** Hexagonal Nut type

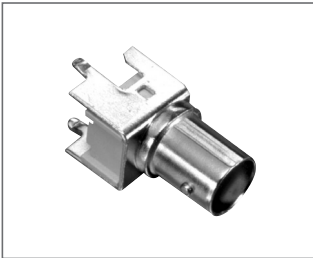
[illegible]

* **Note** : Please avoid any cleaning soldering. This occurs to insulation problem.

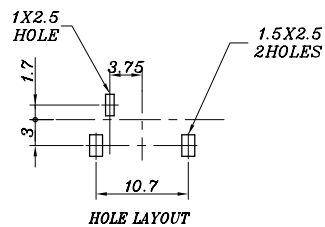
■ BNC Receptacles

Up to 750MHz

SW-2497B-PCB



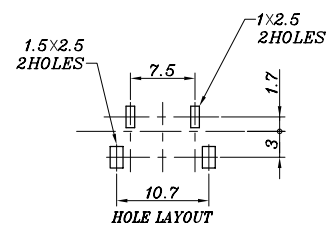
Vertical w/o Switch



SW-2520B-PCB



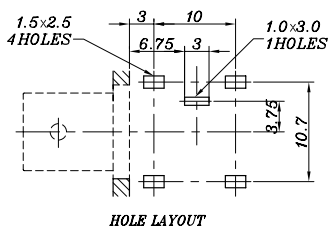
Vertical with Switch



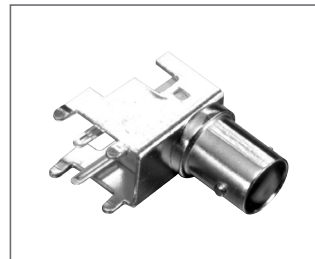
SW-2639B-LPCB



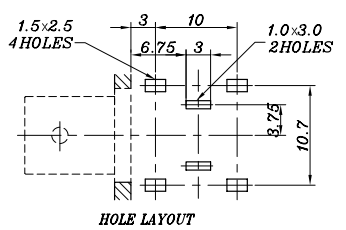
Horizontal w/o Switch



SW-2521B-LPCB



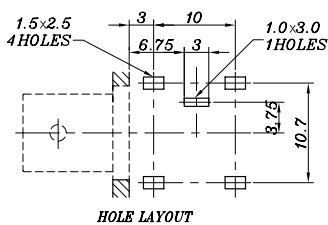
Horizontal with Switch



SW-2635B-LPCB



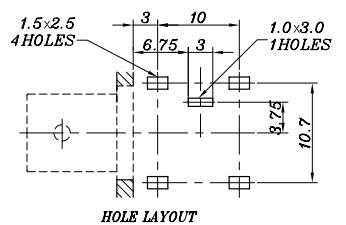
Horizontal w/o Switch (Short)



SW-2645B-LPCB



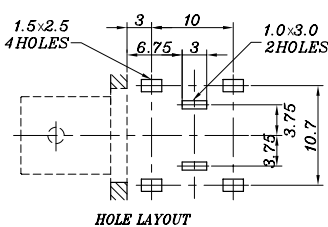
Horizontal w/o Switch (Short, Brass)



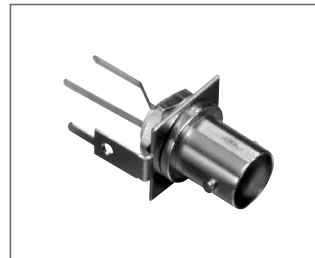
SW-2584B-LPCB



Horizontal with Switch (Short)



BNC-RB-2P



Bulkhead with Switch

BNC-PCL

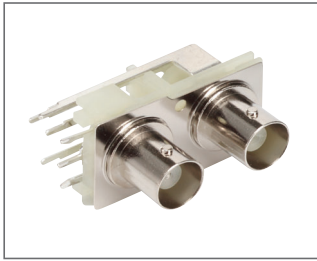


Horizontal w/o Switch

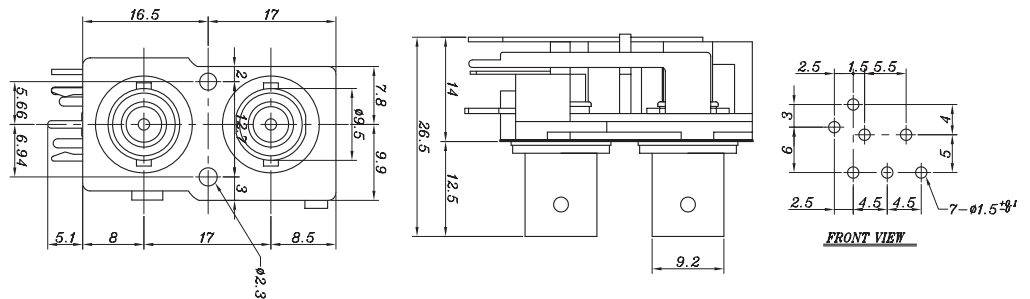
BNC Receptacles

Up to 750MHz

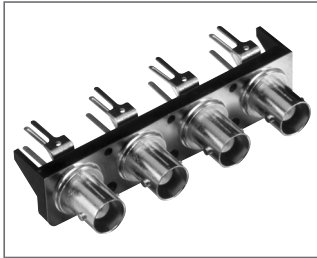
BNC2-P/B



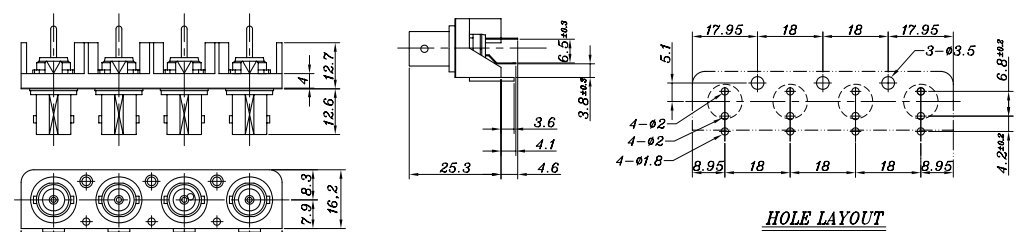
Vertical with 2 Switches



BNC4-P/B



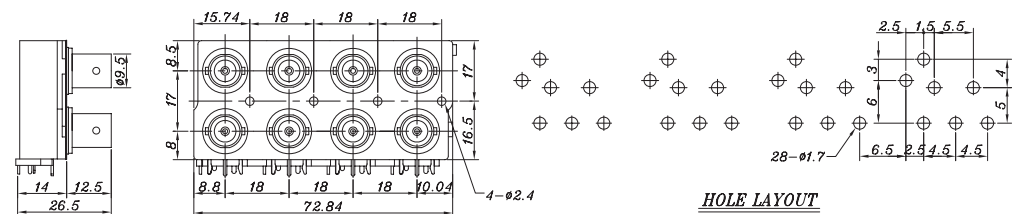
Vertical with 4 Switches



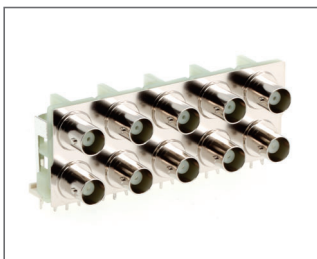
BNC8-P/B



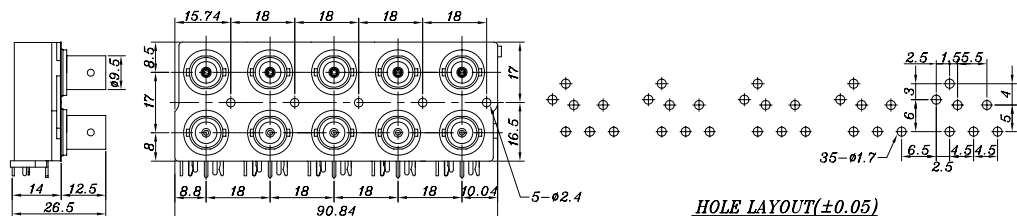
Vertical with 8 Switches



BNC10-P/B



Vertical with 10 Switches



Specifications subject to change without notice. Consult Sam Woo Electronics for the latest specifications.

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Sam Woo Electronics Co., Ltd.

SAM WOO ELECTRONICS CO., LTD.

KOREA

148, Gongdan 1-daero 196beon-gil, Siheung-si, Gyeonggi-do, 15098
Republic of Korea

Tel : +82-31-432-0035 Fax : +82-31-433-6167

Website : www.isamwoo.com Email : info@isamwoo.com



TRUST COMPONENTS CO., LTD.

JAPAN

Atsugi Axt Maintower 11F
3050 Okada Atsugi-city Kanagawa 243-0021, Japan
株式会社トラストコンポーネンツ
〒243-0021 神奈川県厚木市岡田3050
厚木アクストメインタワー11F

Tel : +81-4-6229-3136 Fax : +81-4-6220-2917

Website : www.trust-comp.co.jp Email : morimoto@trust-comp.co.jp



E-VALUCON, INC.

AFRICA / USA / AMERICA / EUROPE

16 Technology Drive Suite 168 Irvine, CA 92618 USA

Tel : +1-949-450-0080 Fax : +1-949-450-0033

Website : www.evalucon.com Email : info@evalucon.com



E-VALUCON HK COMPANY, LTD.

ASIA

Room 1205, 12/F, Tower 1 Silvercord 30 Canton Road,
Tsim Sha Tsui, Kowloon, Hong Kong

Tel : +852-3971-5024

Website : www.evalucon.com Email : info@evalucon.com



Sam Woo Electronics Co., Ltd.

www.isamwoo.com