

75Ω OPTIMIZED BNC JACKS & PLUGS

Mates with:
RF179, RFA6T,
RFB6T, GRF7H-C

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?BNC7T-TH, www.samtec.com?BNC7T-BH or www.samtec.com?BNC7T-EM

Shell Material:

Ni plated Brass
(-TH1, -BH1, -EM1, -EM2)
Zinc (-TH2D, -BH2D,
-EM1D, -EM2D)

Contact Material:

Copper Alloy

Insulator Material:

PTFE

Impedance:

ST = 75Ω ±2Ω

RA = 75Ω ±4Ω

Frequency Range:

0-6 GHz *

V.S.W.R.:

1.45 max

Working Voltage:

500 Vrms

Dielectric Withstanding:

1500 Vrms min

Contact Resistance:

Center Contact: 1.5mΩ max

Outer Contact: 0.4mΩ max

Operating Temperature:

-65°C to +125°C

RoHS Compliant:

Yes

Lead-Free Solderable:

Yes

TOOL

Tool for quickly
installing/uninstalling
knurl nut for BNC7T Series
Part Number:
TOOL-BNC7T-01

BNC7T

GENDER

TYPE

PLATING

ORIENTATION

TERMINATION

* Designed to meet
SMPTE 424M 3G
SDI specification.

-J
= Jack

-P
= PCB
Mount

-GN
= 10μ"
(0,25 μm)
Gold
contact,
100μ"
(2,54 μm)
Nickel
shell

-ST
= Straight

-RA
= Right Angle
Bulkhead/
Panel Mount

-TH1
= Standard
Through-hole

-TH2D
= Tall
Through-hole

-BH1
= Standard
Bulkhead
Through-hole
(-RA only)

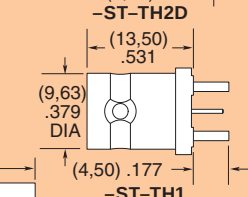
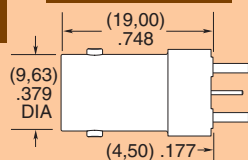
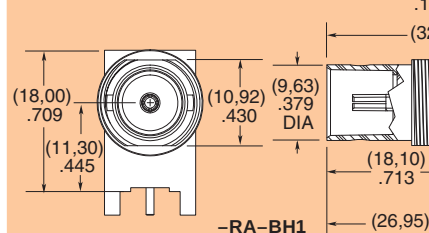
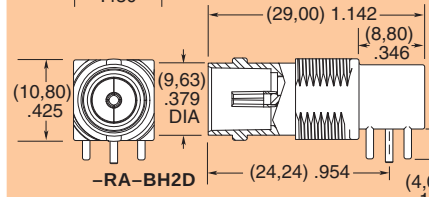
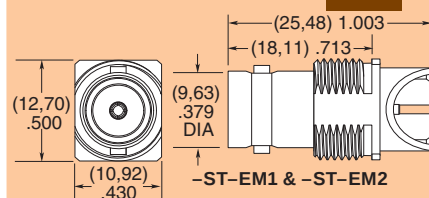
-BH2D
= Low Profile Die
Cast Bulkhead
Through-hole
(-RA only)

-EM1
= Edge Mount
Bulkhead/Panel
Mount for
(1,60 mm)
.062" PCB
(-ST only)

-EM1D
= Edge Mount
Die Cast
Bulkhead/Panel
Mount for
(1,60 mm)
.062" PCB
(-ST only)

-EM2
= Edge Mount
Bulkhead/Panel
Mount for
(2,40 mm)
.093" PCB
(-ST only)

-EM2D
= Edge Mount
Die Cast
Bulkhead/Panel
Mount for
(2,40 mm)
.093" PCB
(-ST only)



* Lock washers & knurled nuts supplied
with Bulkhead/Panel Mount options

SPECIFICATIONS

For complete specifications
and assembly instructions see
www.samtec.com?BNC7T-CA

Shell Material:

Brass

Contact Material:

Brass (-P), Copper Alloy (-J)

Center Contact:

Soldered

Outer Ferrule:

Crimped

Impedance:

75Ω

Frequency Range:

0-4 GHz (-P)*, 0-3.5 GHz (-J)*

V.S.W.R.:

1.3 max

Working Voltage:

500 Vrms

Dielectric Withstanding:

1500 Vrms min

Contact Resistance:

Center Contact: 3mΩ max

Outer Contact: 2mΩ max

Insulator Resistance:

5,000 MΩ min

Operating Temperature:

-65°C to +125°C

BNC7T

GENDER

TYPE

PLATING

ORIENTATION

TERMINATION

* Designed to meet
SMPTE 424M 3G
SDI specification.

-P
= Plug

-J
= Jack

-C
= Cable

-GN
= 10μ" (0,25 μm)
Gold on contact,
Nickel on outer
contact and shell

-ST
= Straight

-RA
= Right Angle
(-P only)

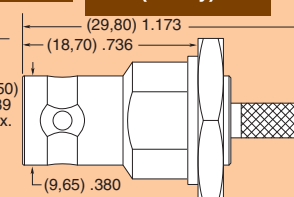
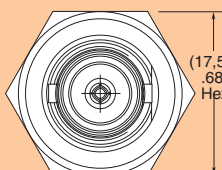
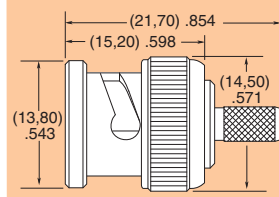
-CA3
= RG 179 Cable
(-P only)

-CA3D
= RG 179 Cable
Die Cast
(-P-ST only)

-BH3
= Bulkhead,
RG 179 Cable
(-J only)

-CA6
= RG 6 or
Belden
1694A Cable
(-P only)

-CA6D
= RG 6 or
Belden
1694A Cable
Die Cast
(-P-ST only)



Supplied with pins, ferrules, washers, nuts and gaskets. See website for dimensions.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM