

TNC SERIES

50Ω TNC JACKS & PLUGS

Mates with:
RF058, RF178, RF316,
RF174, GRF1H-C

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com/TNC-TH

Outer Contact Material:
Ni plated Brass

Center Contact Material:
Au plated Brass (N-Type)

Au plated Phosphor
Bronze (TNC)

Insulator Material: PTFE

Operating Temperature:
-65°C to +125°C

Impedance: 50Ω

Frequency Range: 0-6 GHz

Working Voltage:

500 Vrms max

Dielectric Withstanding:
1500 Vrms min

Contact Resistance:

Center Contact: 3mΩ max

Outer Contact: 2mΩ max

Insulator Resistance:

5000 MΩ min

RoHS Compliant: Yes

Processing:

Lead-Free Solderable: Yes

Note: While optimized for 50Ω applications, this connector can also perform well in certain 75Ω applications. Contact RFGGroup@samtec.com for further information.

TNC

GENDER

TYPE

PLATING

ORIENTATION

TERMINATION

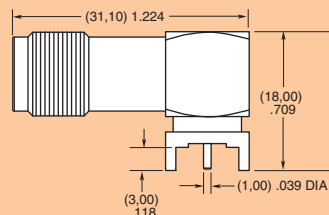
—J
= Jack

—P
= PCB
Mount

—H
= 30μ"
(0,76 μm)
Gold on
center
contact,
Nickel on
Shell

—RA
= Right Angle

—TH1
= Through-Hole



SPECIFICATIONS

For complete specifications and assembly instructions see www.samtec.com/TNC-CA

Shell Material:

Brass

Contact Material:

Brass (—P—ST),

Phosphor Bronze (—J)

Center Contact:

Soldered

Outer Ferrule:

Crimped

Impedance:

50Ω

Frequency Range:

0-3 GHz (Cable dependent)

V.S.W.R.:

1.3 max

Working Voltage:

500 Vrms max

Dielectric Withstanding:

1500 Vrms min

Contact Resistance:

Center Contact: 3mΩ max

Outer Contact: 2mΩ max

Insulator Resistance:

5,000 MΩ min

Operating Temp Range:

-65°C to +125°C

TNC

GENDER

TYPE

PLATING

ORIENTATION

TERMINATION

ALSO
AVAILABLE
(MOQ Required)

• IP67 sealed option
Contact Samtec.

—P
= Plug

—J
= Jack

—C
= Cable

—GN
= 10μ"
(0,25 μm)
Gold on
contact,
Nickel on
body

—ST
= Straight

—SR
= Straight
Reverse Polarity
(—P only)

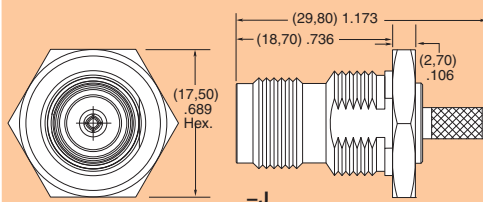
—CA1
= RG 174 / 316 Cable
(—P & —ST only)

—CA2
= RG 178 Cable
(—P & —ST only)

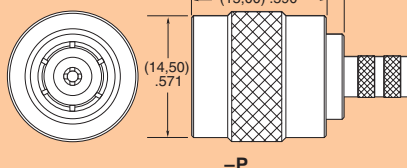
—C10
= RG 58 Cable
(—P & —SR only)

—BH1
= Bulkhead,
RG 174 / 316 Cable
(—J & —ST only)

—BH2
= Bulkhead,
RG 178 Cable
(—J & —ST only)



—J



—P

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

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

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