INTRODUCTION:
Adam Tech's RFC series RF connectors are a comprehensive assortment of Radio Frequency signal connectors in standard, miniature, sub-miniature, micro miniature and surface mount styles. Included are BNC, TNC, FME, FMA, SMA, SMB, N, F, PAL, UHF, Mini-UHF, MCX, MMCX, MHF, W.FL & 1.6/5.6 coupling versions. Each has a standard industry interface. Most are ideal for applications where size and weight are important in densely populated applications. All afford excellent RF characteristics

FEATURES:
Bodies available with gold or nickel plating
Insulators available in Teflon, Delrin, and Polypropylene
Standard availability of 50 or 75 ohms impedance
Through hole and SMT types for printed circuit board versions
Male and female types available in bulkhead and cable mount versions

MATING CONNECTORS:
Adam Tech RF series connectors and all industry
Standard RF connectors

SPECIFICATIONS:

Material:
Housing: Brass, Nickel plated
Zinc diecast, Nickel plated
Standard Insulators: Delrin, Polypropylene or Teflon
Optional Hi-Temp Insulator: Teflon
Contacts: Beryllium copper, Gold plated

Electrical:
Operating voltage: 150V AC max.
Contact resistance: 5 mΩ max. initial
Impedance: 50 or 75 ohms
Insulation resistance: 5000 M min.
Dielectric withstanding voltage: 1000V AC for 1 minute
VSWR: 1.2 max
Frequency range: 0 – 6 GHZ

Mechanical:
Engagement force: 4.5 lbs max
Disengagement force: 2 lbs min
Cable retention: equal to breaking strength of cable employed
Durability: 500 cycles

Temperature Rating:
Operating temperature: -20°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:
Anti-ESD plastic trays or bags

APPROVALS AND CERTIFICATIONS:
UL Recognized & CSA Certified,
File no. E224053

HI-TEMP INSULATOR AVAILABLE

c UL us

Pb RoHS COMPLIANT

ORDERING INFORMATION

RF	1	01	D	01	50

SERIES INDICATOR
RF =
RF Connector

STYLE
1 = BNC
2 = SMA
3 = SMB
4 = F
5 = N
6 = UHF
7 = TNC
8 = FME
9 = Mini UHF
11 = MCX
12 = MMCX
20 = MHF
28 = W. FL

TYPE
01 thru 99

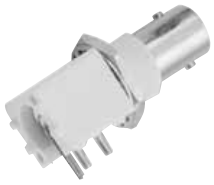
INSULATOR MATERIAL
T = Teflon
D = Delrin
P = Polypropylene

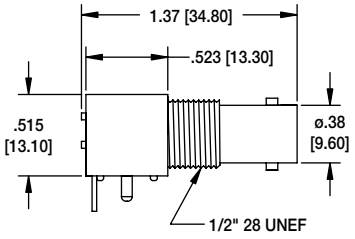
CABLE TYPE OR APPLICATION
00 = PCB Mount
01 = 55U/58/58A/58C/140U/141/141A/142U/223U/303
02 = 174U/188A/316U
03 = 179U/187U
04 = 59/59A/59B/62/62AU/62B/62C 210
05 = RG 6/U
06 = RG 213/U
07 = .141-Semi-Rigid
08 = .085/.086-Semi-Rigid
AS = Adapter or Splitter

IMPEDENCE
50 = 50 Ohms
75 = 75 Ohms

OPTIONS:
Add as suffix to basic part no.
HT = Hi-Temp insulator for hi-temp soldering processes up to 260°C
G = Gold plated body and contact

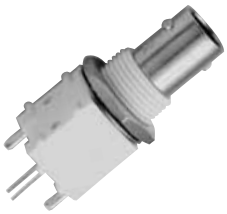
RF1 TYPE 01
BNC RIGHT ANGLE FEMALE PCB MOUNT

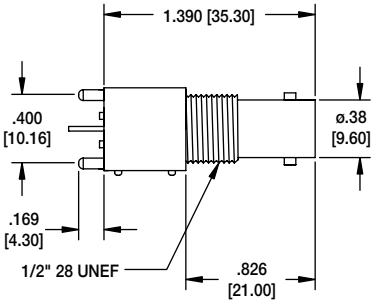




RF1-01-P-00-50

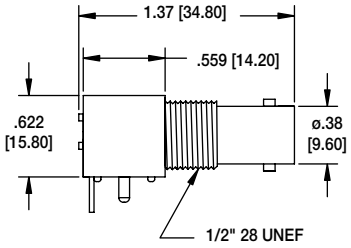
RF1 TYPE 01V
BNC STRAIGHT FEMALE PCB MOUNT





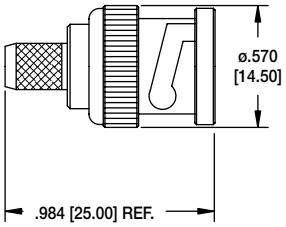
RF1-01V-P-00-75

RF1 TYPE 01A
BNC HIGH PROFILE RIGHT ANGLE FEMALE PCB MOUNT



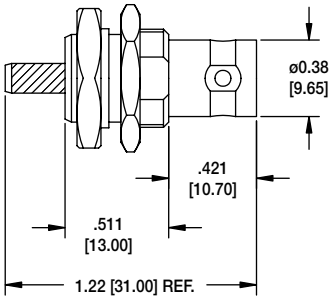
RF1-01A-P-00-50

RF1 TYPE 03
BNC MALE CRIMP



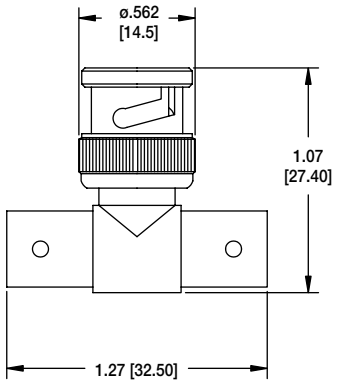
RF1-03-D-05-75

RF1 TYPE 04
BNC FEMALE BULKHEAD CRIMP

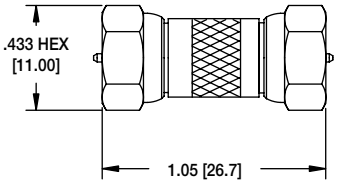


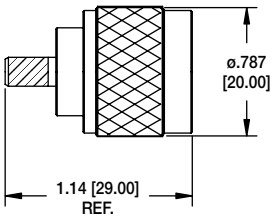
RF1-04-T-01-75

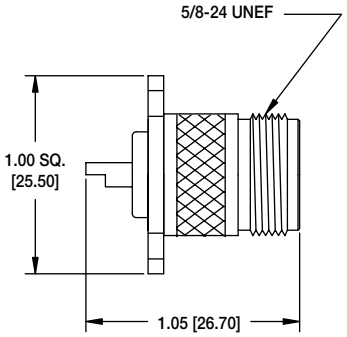
RF1 TYPE 05
BNC MALE TO BNC DOUBLE FEMALE

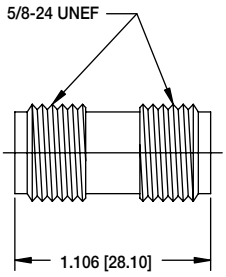


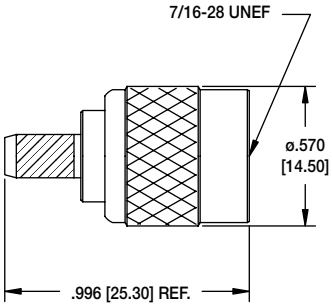
RF1-05-D-AS-75

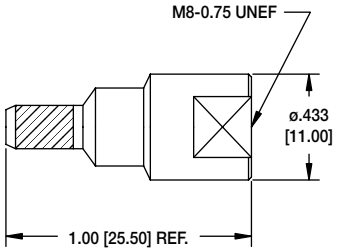

.433 HEX
[11.00]
1.05 [26.7]

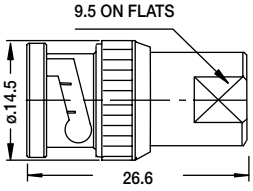

ø.787
[20.00]
1.14 [29.00]
REF.

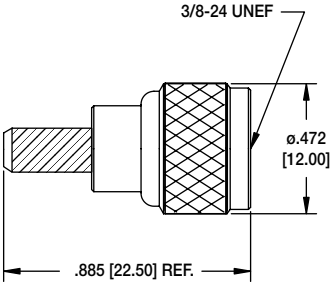

5/8-24 UNEF
1.00 SQ.
[25.50]
1.05 [26.70]


5/8-24 UNEF
1.106 [28.10]

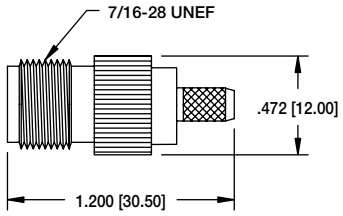

7/16-28 UNEF
ø.570
[14.50]
.996 [25.30] REF.


M8-0.75 UNEF
ø.433
[11.00]
1.00 [25.50] REF.


9.5 ON FLATS
ø14.5
26.6

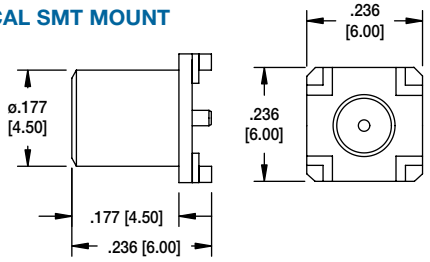

3/8-24 UNEF
ø.472
[12.00]
.885 [22.50] REF.

RF7 TYPE 08
TNC FEMALE CRIMP



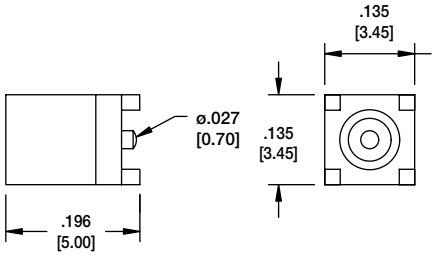
RF7-08-T-02-50-G

RF11 TYPE 01
MCX FEMALE VERTICAL SMT MOUNT



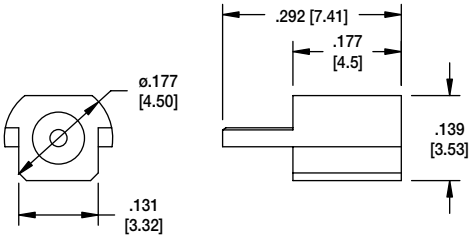
RF11-01-T-00-50-G
Enlarged to show detail

RF12 TYPE 04
MMCX MALE VERTICAL PCB MOUNT



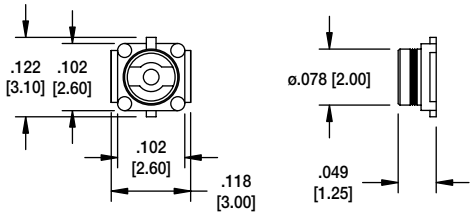
RF12-04-T-00-50-G
Enlarged to show detail

RF12 TYPE 05
MMCX PCB MOUNT



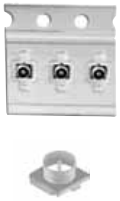
RF12-05-T-00-50-G

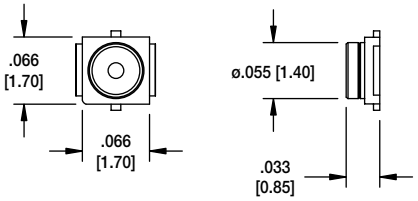
RF20 TYPE 01
MHF SURFACE MOUNT



RF20-01-p-00-50-G
Enlarged to show detail

RF28 TYPE 01
W.FL SURFACE MOUNT

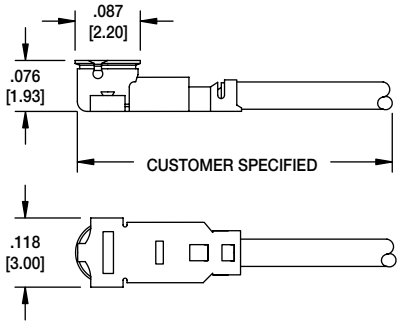


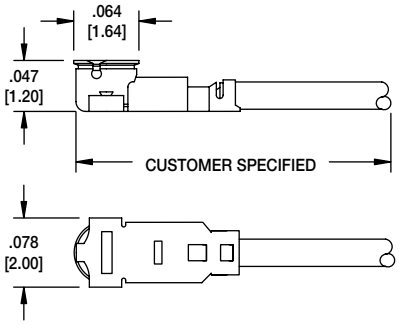


RF28-01-T-00-50-G
Enlarged to show detail

RF20 TYPE 01 CABLE ASSEMBLY
MATES WITH MHF SMT CONNECTOR

CA# 6994-XX



RF28 TYPE 01 CABLE ASSEMBLY
MATES W.FL SMT CONNECTOR

CA# 6993-XX