

## SMA SERIES

### ELECTRICAL SPECIFICATIONS

Impedance	50 ohms
Frequency Range	Flexible Cables: RG316 Straight Connectors 0-12 GHz.
Dielectric Withstanding Voltage	RG-58 1,000 V rms. RG-316 750 V rms.
VSWR (Straight Connectors)	RG-58 Group: 1.15+.011 f (GHz) RG-316 Group: 1.20+.025 f (GHz)
Contact Resistance (Initial)	Center: 22 Milliohms Body: 22 Milliohms Boaid to Body: 0.5 Milliohms

### ENVIRONMENTAL

Temperature Range (Semi-Rigid Cable)	-65°C to + 165°C (-65°C + 100°C)
Vibration	MIL-Std. 202 Method 204 (Test Cond. D)
Shock	MIL-Std. 202 Method 213
(Salt Spray)	MIL-Std. 202 Method 101 (Test Cond. B)
Moisture Resistance	5% Salt Solution.
Weatherproofing	MIL-Std. 202 Method 106
	Crimp Type: Heat Shrink Tubing
	Solder Type: Silicone Rubber Gaskets

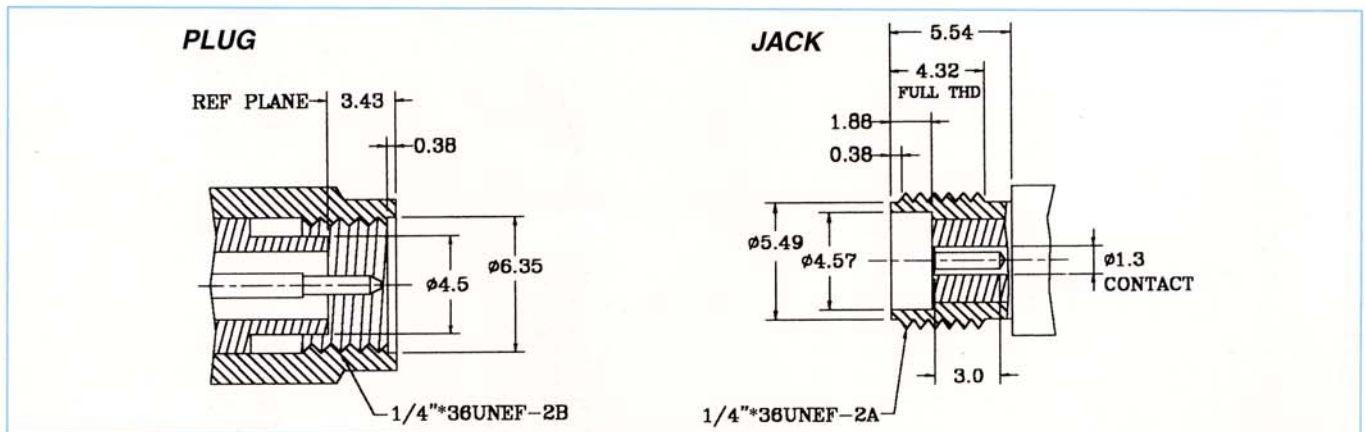
### MECHANICAL

Mating	1/4"*36 UNEF Coupling
Mating Torque	Minimum: 2 inch-pbs 22 N.cm Maximum: 16 inch-pbs
Connector Affixment to Cable	Crimp Types, Solder Types For Semi-Rigid Cable
Cable Affixment to Center Contact	Solder, Except as Noted
Contact Captivation	All Types, Except as Noted
Cable Retention	Crimp Type for RG-58 .141,303=60 lbs min; for RG-55, 142, 223=80 lbs min.
Connector Durability	500 Mating (min)

### MECHANICAL

Bodies, Coupling Nuts, Other Metal Parts (Except as Noted) Contacts	Non-Magnetic Stlainless Hex Crimp. Type 303. BRASS, Type C3600 Beryllium Copper Per Annealed Per MIL-H-7199 Gold Over Nickel Unless Otherwise Requested.
Plating: Center Contacts.	Gold Plated or Passivated to Meet the Finish and Corrosion Requirements of MIL-G-39012.
Plating: Other Metal Parts	TEFLON
Insulators	Silicone Rubber.
Gaskets	Stainless Steel, Internal-Tooth Supplied with All Bulkhead Mounted Connectors.
Lockwashers	Tubing Alloy #122 (DHO) Annealed
Crimp Ferrules	

### INTERFACE DIMENSIONS



## SMA SERIES

### 360 NETWORK ANALYZER

MADEL SMA CONNECT DATE  
 1  
 DEVICE ID RECEPTACLE OPERATOR DANNY

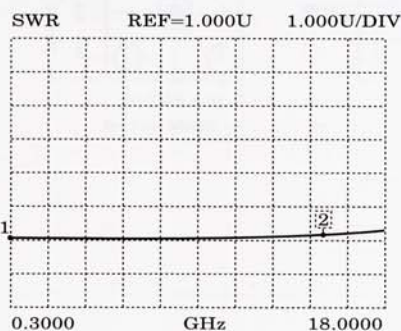
### SWEEP SATA

START	0.3000 GHz	GATE START	0.0000 ps	ERROR CORR	REFL ONLY
STOP	18.0000 GHz	GATE STOP	48.3380 ps	AVERAGING	PTS
STEP	0.3000 GHz	GATE	NOMINAL	IF BNDWDTH	REDUCED
		WINDOW	NOMINAL		

### CH 1

PARAMETER	S11
NORMALIZATION	OFF
REFERENCE PLANE	0.0000 mm
SMOOTHING	0.0 PERCENT
DELAY APERTURE	-
PROCESSING	FREQ W/GATE
GATING	ON

### S11 FORWARD REFLECTION



### MARKERS

MKR	FREQ	SWR	PHASE
pt	GHz	UNITS	Deg
1	0.3000	1.055E+00	9.496
2	15.000	1.173E+00	76.123

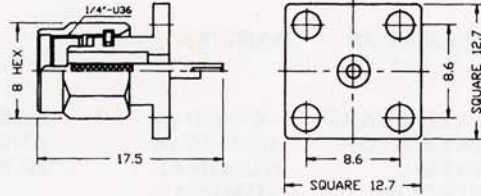
### FREQUENCY POINTS :

PNT	FREQ	SWR	PHASE
pt	GHz	UNITS	Deg
1	0.3000	1.055E+00	9.496
2	1.2000	1.047E+00	-12.438
3	2.1000	1.038E+00	-35.972
4	3.0000	1.029E+00	-63.744
5	3.9000	1.020E+00	-102.631
6	4.8000	1.016E+00	-160.514
7	5.7000	1.020E+00	146.716
8	6.6000	1.027E+00	114.739
9	7.5000	1.029E+00	94.930
10	8.4000	1.027E+00	86.106
11	9.3000	1.023E+00	96.503
12	10.2000	1.030E+00	121.411
13	11.1000	1.050E+00	128.295
14	12.0000	1.077E+00	121.490
15	12.9000	1.105E+00	109.478
16	13.8000	1.134E+00	95.771
17	14.7000	1.163E+00	81.129
18	15.0000	1.173E+00	76.123
19	15.6000	1.192E+00	66.025
20	16.5000	1.221E+00	50.688
21	17.4000	1.254E+00	35.244
22	18.0000	1.254E+00	35.244

## SMA CONNECTORS

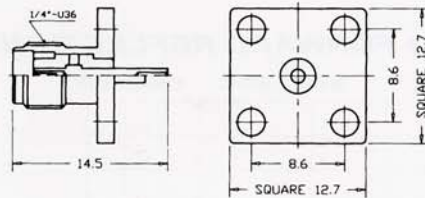
### TC-701

- SMA PLUG PANEL MOUNT

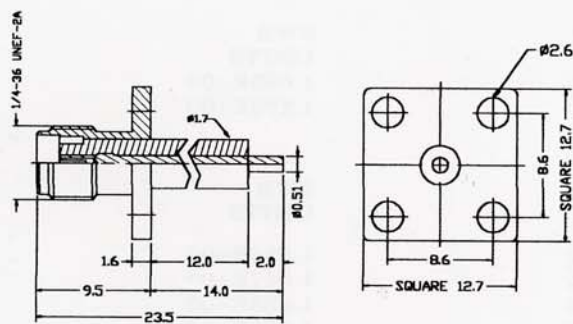


### TC-702

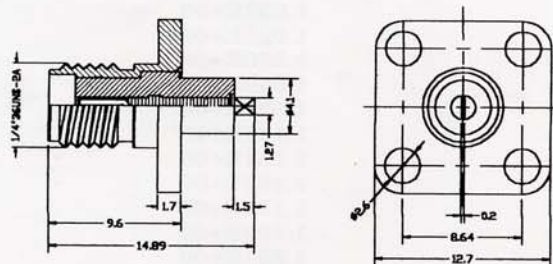
- SMA JACK PANEL MOUNT



### TC-702B

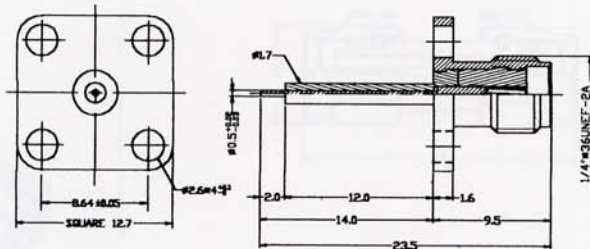


### TC-702C

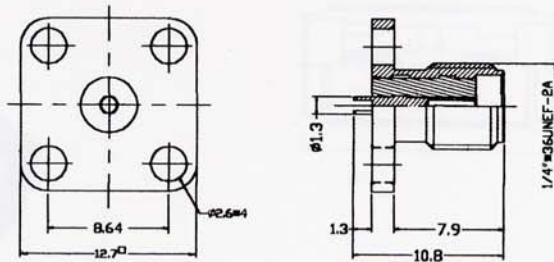


**SMA CONNECTORS**

**TC-702D**

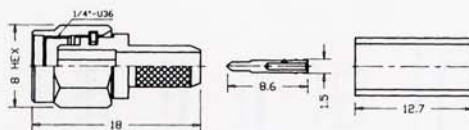


**TC-702E**



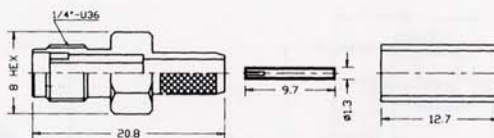
**TC-703**

- SMA PLUG. CRIMP



**TC-704**

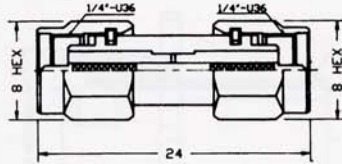
- SMA JACK. CRIMP



## SMA CONNECTORS

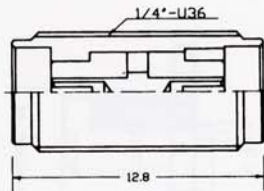
### TC-705

- SMA PLUG TO PLUG



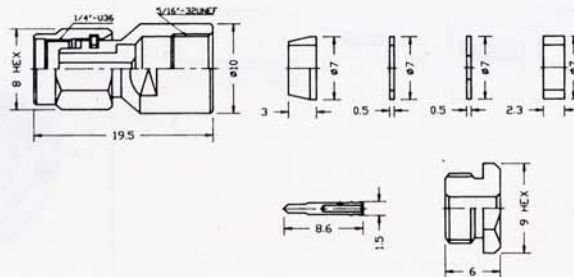
### TC-706

- SMA JACK TO JACK



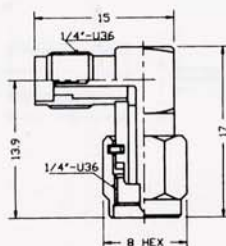
### TC-707

- SMA PLUG
- CLAMP



### TC-708

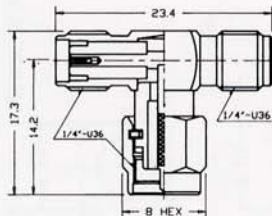
- SMA PLUG TO JACK
- RIGHT ANGLE



**SMA CONNECTORS**

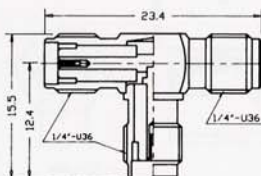
**TC-709**

- SMA PLUG TO 2 JACKS



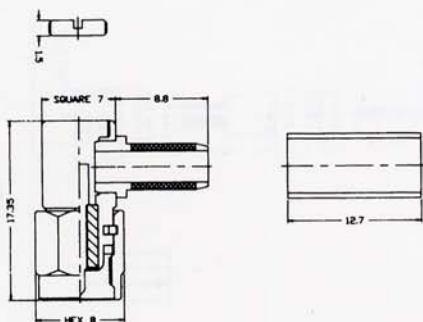
**TC-710**

- SMA "TEE" ADAPTER JACK TO 2 JACKS



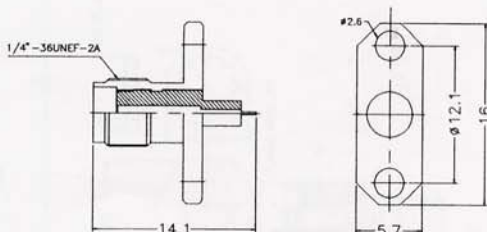
**TC-711**

- SMA PLUG
- RIGHT ANGLE
- CRIMP



**TC-712**

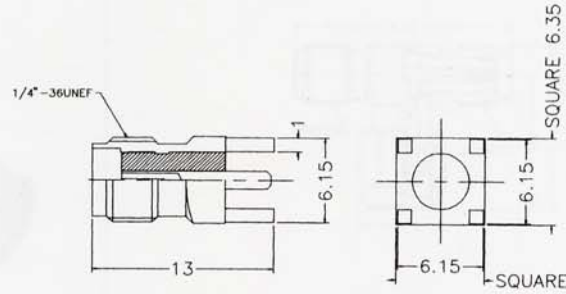
- SMA PANEL FEMALE RECEPTACLE TWO-HOLE TERMINAL FLANGE



## SMA CONNECTORS

### TC-713

- SMA FEMALE
- 4 LEGS

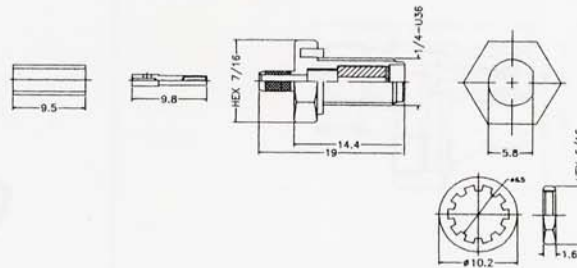


Mounting Hole : TYPE D



### TC-714

- SMA BULKHEAD
- CRIMP TYPE WITH WATER PROOF

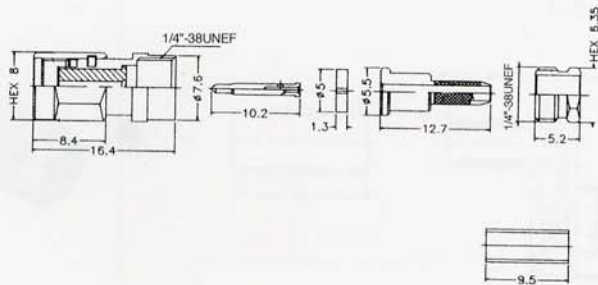


Mounting Hole : TYPE IV



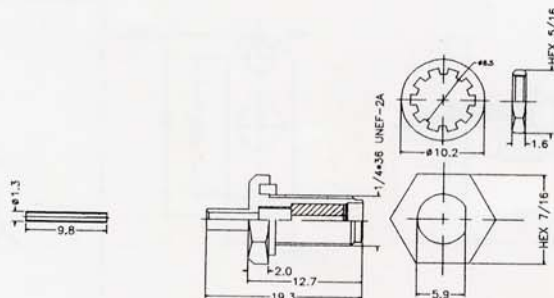
### TC-715

- SMA PLUG CRIMP TYPE



### TC-716

- SMA FEMALE
- WATER PROOF
- SEMI-RIGID



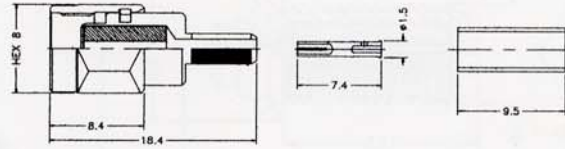
Mounting Hole : TYPE IV



# SMA CONNECTORS

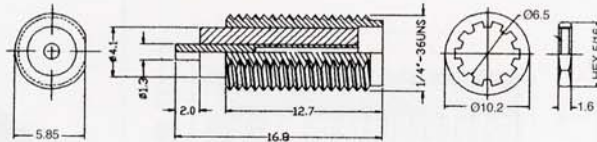
## TC-717

- REVERSE POLARITY SMA CONNECTOR



## TC-718

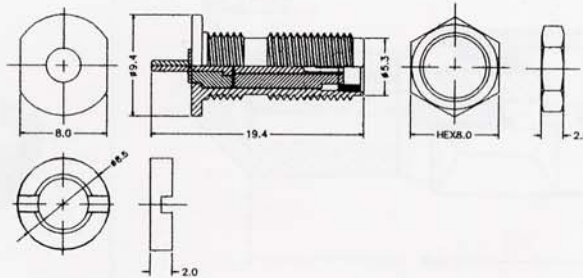
- SMA FEMALE WITH SOLDER END



Recommend Mounting Hole : TYPE IV

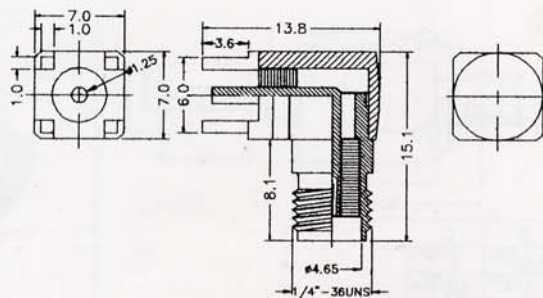
## TC-719

- SMA FEMALE WITH SCREW TIGHT



## TC-720

- SMA R/A 4 LEGS



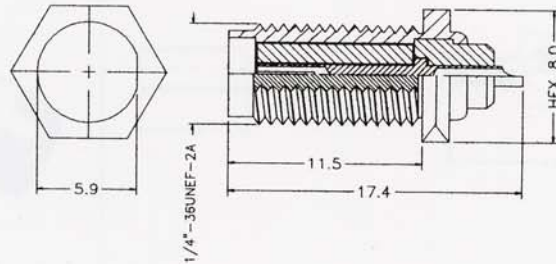
Mounting Hole : TYPE D



## SMA CONNECTORS

### TC-721

- SMA BULKHEAD JACK SOLDER TYPE

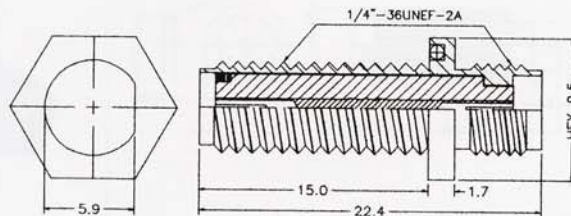


Mounting Hole : TYPE IV



### TC-722

- SMA JACK TO JACK WITH WATER PROOF

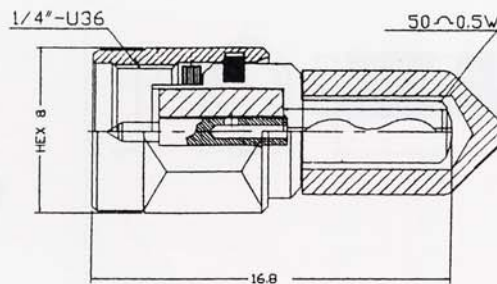


Mounting Hole : TYPE IV



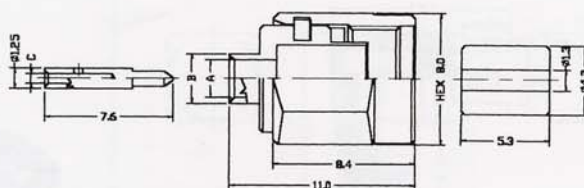
### TC-723

- SMA PLUG TERMINATOR



### TC-724

- SMA PLUG PRESS FIT INSULATOR
- FOR SEMI-RIGID CABLE



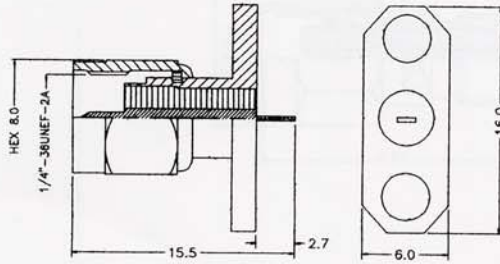
CABLE	A	B	C
.141	3.7 <sup>+0.1</sup> <sub>-0</sub>	4.6 <sup>+0.05</sup> <sub>-0</sub>	1 <sup>+0.05</sup> <sub>-0</sub>
.085	2.3 <sup>+0.1</sup> <sub>-0</sub>	3 <sup>+0.05</sup> <sub>-0</sub>	0.6 <sup>+0.05</sup> <sub>-0</sub>



# SMA CONNECTORS

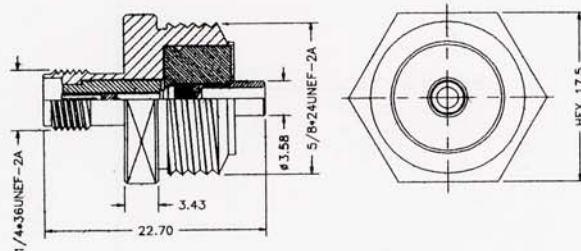
## TC-725

- SMA PANEL PLUG
- RECEPTACLES
- 2-HOLE
- TERMINAL FLANGE



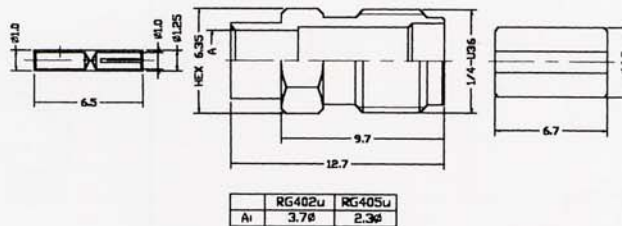
## TC-726

- SMA PLUG TO PANEL MOUNT



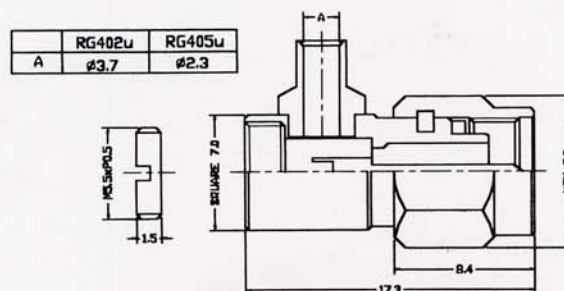
## TC-727

- SMA JACK FOR SEMI-RIGID



## TC-728

- SMA R/A PLUG FOR SEMI-RIGID CABLE



## SMA CONNECTORS

### TC-729

- SMA MALE  
REVERSE TO  
SMA FEMALE

