



1.0-2.3



**Aliner Industries, Inc.**

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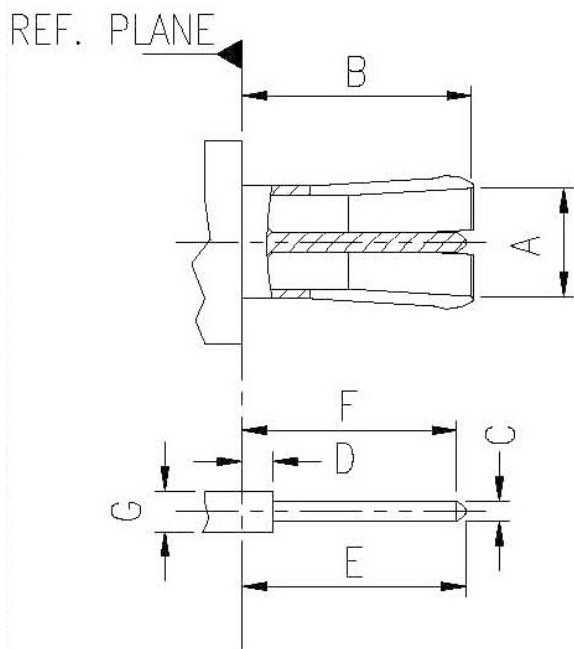
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# 1.0-2.3 - Description

Aliner 1.0/2.3 series is a compact design which provides a push-pull coupling system allowing quick installation; they are ideally suited to applications where space is limited. Aliner 1.0/2.3 coaxial connectors are 50 ohm units operating from 0~6 GHz.

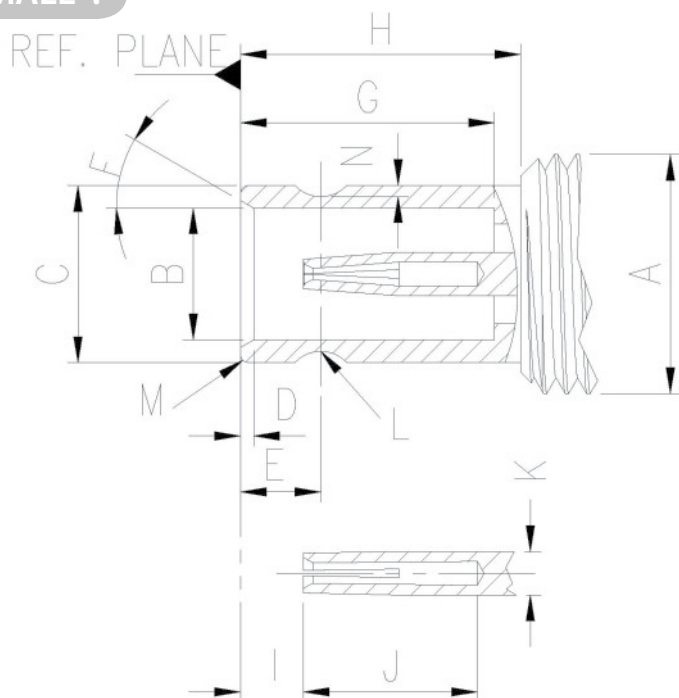
## Interface Mating Dimensions

### MALE :



LTR.	Millimeters / Inches			
	MINIMUM		MAXIMUM	
A -	Ø 2.30 Ø .091 nominal			
B -	5.40	.213	5.70	.224
C -	Ø 0.47	Ø .018	Ø 0.52	Ø .020
D -			1.15	.045
E -			5.50	.217
F -	4.50	.177		
G -	Ø 1.00 Ø .039 nominal			

### FEMALE :



LTR.	Millimeters / Inches			
	MINIMUM		MAXIMUM	
A -	M5.5x0.5			
B -	Ø 3.00	Ø .118	Ø 3.06	Ø .120
C -	Ø 4.03	Ø .159	Ø 4.14	Ø .163
D -	0.50	.020	0.60	.024
E -	1.80	.071	1.90	.075
F -	30°±2°			
G -	5.80	.228	5.90	.232
H -	6.40	.252	6.50	.256
I -	1.15	.045	1.75	.069
J -	4.50	.177		
K -	Ø 1.00 Ø .039 nominal			
L -	R0.75	R0.030	R0.85	R0.033
M -			R0.30	R0.011
N -	Ø 3.53	Ø .139	Ø 3.60	Ø .142



## Technical Data

### Material / Finish :

	Material	Finish
Connector body	Brass per ( QQ-B-626 or JIS-C3604B )	Nickel or gold plating
Center contact male	Brass per ( QQ-B-626 or JIS-C3604B )	Gold plating
Center contact female	Beryllium copper per ( QQ-C-530 or JIS-C1730 ) or Phosphor bronze per ( QQ-B-750 or JIS-C5441B )	Gold plating
Insulator	PTFE	None

### Electrical :

Nominal impedance	50Ω
Frequency up to	6.0 GHz
VSWR	1.35 max.
Working voltage	250 Volts rms max.
Dielectric withstanding voltage	1000 Volts rms min.
Insulation resistance	1000 MΩ min.
Contact resistance	center conductor 4.0 mΩ initial outer conductor 2.0 mΩ initial

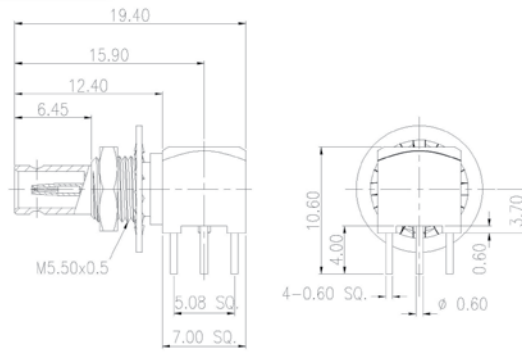
### Mechanical & Environmental :

Mating	Snap on coupling
Cable retention	2.3 Kgf typical
Durability	≥ 500 cycles
Engagement force	2.75 kgf max.
Disengagement force	0.4 kgf min.
Temperature range	-55 °C to +155 °C
Vibration	Per MIL-STD-202 Method 204 Test Condition D
Corrosion	Per MIL-STD-202 Method 101 Test Condition B



### Right Angle Bulkhead Jack(female)

PCB MOUNT



**Aliner P/N**

**Impedance**

**Plating**

**Packaging**

**Mounting Pattern**

**Note**

24-109B0-T

50

Silver

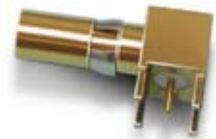
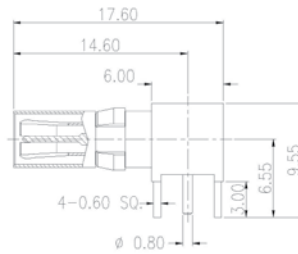
Tray

B83

Standard

### Right Angle Plug(male)

PCB MOUNT



**Aliner P/N**

**Impedance**

**Plating**

**Packaging**

**Mounting Pattern**

**Note**

24-209A0-T

50

Gold

Tray

B83

Standard