



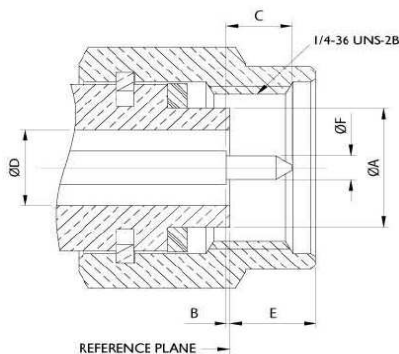
General

As the operating frequencies go higher and higher for wireless systems, the demands for connectors with higher frequency limit and quality are increasing. SMA connectors are not designed as precision connectors, not for heavy use, and only for frequencies up to 24 GHz at most. They are widely used in microwave industry mainly because economic considerations, therefore, will be inevitably replaced for any serious applications.

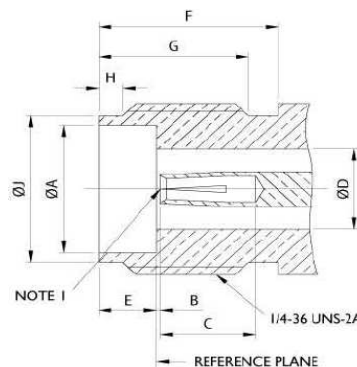
Generally, to avoid the spurious propagation modes in a coaxial connector, its dimensions must be reduced accordingly as the operation frequencies go higher. Also, since a precision connector can not be made with a dielectric other than air, a well-design support bead must be used if necessary. Finally, the effects of the discontinuities in a connector are more pronounced at higher frequencies and need be well compensated during the design. All these demand highly controlled manufacture and assembly. 2.92 mm connectors are designed with thicker outer conductors while maintaining the same size of inner conductors of SMA. This makes them spurious-mode free up to 46 GHz, more reliable for heavy use, and still compatible with SMA. Edcon 2.92 mm series connectors are design and manufactured by highest standards. These include jacks and plugs in various interfaces like direct solder, panel receptacles, and adapters.

We are proud to provide these high-quality connectors with reasonable price and guaranteed fast delivery.

INTERFACE MATING DIMENSIONS



| Plug | | |
|--------|------|------|
| Letter | mm | |
| | min. | max. |
| A | 4.53 | 4.57 |
| B | 0.00 | 0.13 |
| C | 1.55 | 1.65 |
| D | 2.89 | 2.95 |
| E | --- | 3.28 |
| F | 0.91 | 0.94 |



| Plug | | |
|--------|------|------|
| Letter | mm | |
| | min. | max. |
| A | 4.61 | 4.64 |
| B | 0.00 | 0.13 |
| C | 2.80 | --- |
| D | 2.89 | 2.95 |
| E | 1.88 | 1.98 |
| F | 5.90 | --- |
| G | 4.40 | --- |
| H | 0.70 | 0.90 |
| J | 5.30 | 5.40 |

Note: I.D. to meet VSWR and contact resistance when mated with 0.9 / 0.94mm Dia. Pin.

| | |
|---|-----------------|
| Cable, Solder K (2.92mm) Serie | |
| Part No.: | T55A1009 |
| Customer: | |

| | | | | | | | |
|-------|------|------|-------|--------|------|-------|------------|
| DRW: | Dong | CHKD | Chang | MATL: | Chui | DATE | 26.04.2010 |
| APPD: | Ping | | | FINISH | Hui | Sheet | 1 from 3 |



Specifications

| <i>Electrical</i> | | |
|---------------------------------|----------------|---------------|
| Impedance | | 50 Ω |
| Frequency Range | | 0 - 40 GHz |
| Working Voltage | | 250 VRMS max. |
| Dielectric Withstanding Voltage | | 750 VRMS max. |
| VSWR | Straight | 1.3 max. |
| | Right Angle | 1.5 max. |
| Contact Resistance | Center Contact | 3 mΩ max. |
| | Outer Contact | 2 mΩ max. |
| Insulator Resistance | | 5000 MΩ min. |

| <i>Material</i> | | |
|-------------------|-------------------------------------|----------------------|
| Parts Name | Material | Finish |
| Body, Metal Parts | Stainless Steel | Passivated |
| Center Contacts | Plug : Brass per QQ-626 | Gold 30 micro-inches |
| | Jack: Beryllium copper per QQ-C-530 | Gold 30 micro-inches |
| Insulators | Rexolite | None |
| Crimp Ferrules | Annealed Brass | Gold 3 micro-inches |
| Clamp Gaskets | Silicone rubber | None |

| <i>Mechanical & Environmental</i> | |
|---------------------------------------|-------------------------------------|
| Engagement Force | 2 in-lbs. max. |
| Disengagement Force | 2 in-lbs. max. |
| Coupling Nut Retention | 60 lbs. min. |
| Coupling Proof Torque | 15 in-lbs. min. |
| Contact Retention | 6 lbs. min. |
| Durability (Mating) | 500 cycles |
| Temperature Range | -65°C ~ 165°C |
| Vibration | MIL-STD-202 Method 204 Test Cond. B |
| Salt Spray | MIL-STD-202 Method 101 Test Cond. B |
| Thermal Shock | MIL-STD-202 Method 107 Test Cond. B |

**Cable, Solder
 K (2.92mm) Serie**

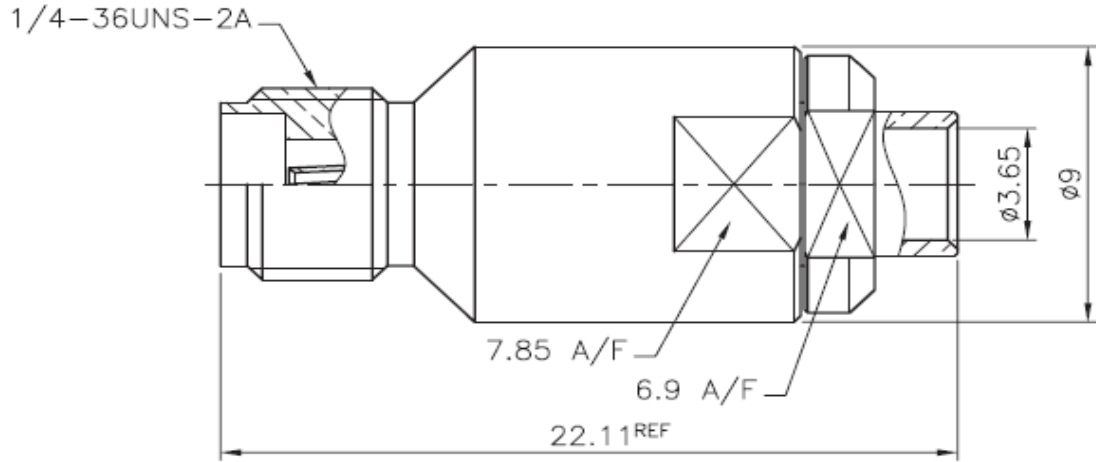
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Technical Drawing



Odering Information

| Serie | - | Cable Group | Impedance | No Function | RoHS | Packing |
|-----------------|---|--|------------------------|-------------|---|--|
| T55A1009 | - | C4 | 50 | XX | R | BU |
| EDCON-Serie | - | C4 = RG-402/U SEMI-RIGID .141" | 50 = 50 Ω | XX | N = no RoHS conform R = RoHS conform | BU = Bulk Ware IV = Individual Packing |

| | |
|---|-----------------|
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| | | | | | | | |
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