

# PRECISION FIXED AND OFFSET SHORTS

## 7mm CONNECTOR



2615A3



2615B3



2615D3



2649D

### **Model 2615A3 - Fixed Short (Flat Plane)**

A precision machined fixed short designed to terminate an APC7 connector at its mating plane. It is fabricated from copper, gold plated and is provided with a coupling nut assembly. It is used for establishing a reference plane in a system as well as in loss measurements. Reflection coefficient is greater than 0.995 to 18 GHz.

### **Model 2615B3 - Fixed Short (With Collet - Six Slot)**

Similar to the model 2615A3 described above except that it includes a collet contact to support the inner conductor of series 2653 reference airlines. Reflection coefficient is greater than 0.995 to 18 GHz.

### **Model 2615D3 - Fixed Short (With Hole)**

Similar to the model 2615A3 except that it has a precision hole to align and support the inner conductor of series 2653 reference airlines with the new support tip. This model is currently being supplied on HP8510 VNA calibration kits. Reflection coefficient is greater than 0.995 to 18 GHz.

### **Model 2649 - Offset Shorts**

The series 2649 are very low loss short circuits which are offset electrically from the reference plane of the APC7 connector. These units cover DC to 18 GHz with a reflection coefficient of greater than 0.99. The offset length is held to  $\pm 0.0025$  cm.

Model	$\lambda/4$ Frequency GHz	Overall Length (cm)
2649A	3.0	2.498
2649B	6.0	1.249
2649C	10.2	0.735
2649D	14.25	0.526
2649E	<span style="border: 1px solid black; padding: 0 2px;">1</span>	0.128

1 Offset length is designed to be a nominal 180° phase difference from the model 2616A open circuit.