

## 6650F27

### 26.5GHz 50Ω 3.5mm Mechanical Calibration Kit

#### Overview

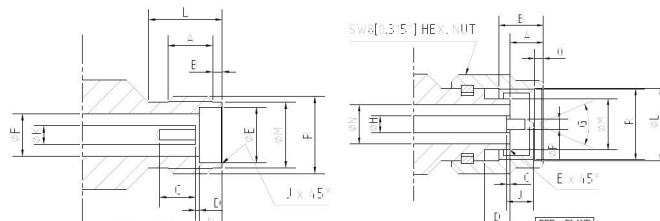
The 6650F27 calibration kits are used to calibrate network analyzers for measurements of components with 3.5mm connectors. This calibration kit is an alternative to Agilent 85052D. The Frequency Range is DC~26.5GHz.

#### Devices

Device	PN	Qty	Configuration
	6650F27		6650F27
Open(male)	6650F27KM	1	●
Open(female)	6650F27KF	1	●
Short(male)	6650F27DM	1	●
Short(female)	6650F27DF	1	●
Load(male)	6650F27LM	1	●
Load(female)	6650F27LF	1	●
Adapter(male to male)	6650A2701	1	○
Adapter(female to female)	6650A2702	1	○
Adapter(male to female)	6560A2703	1	○
Torque Wrench	B08T090	1	○
Box	HW01C2	1	●

●basic configuration    ○options

#### Interface Dimensions



Ref.	Female			
	mm		Inch	
	Min.	Max.	Min.	Max.
A	3.35	4.62	0.132	0.182
B	0.38	1.14	0.015	0.045
C	2.79	3.18	0.110	0.125
D	0.000	0.076	0.0000	0.0030
E	4.597	4.628	0.1810	0.1822
F	3.493	3.508	0.1375	0.1381
J	0.05	0.25	0.002	0.010
K	1.514	1.524	0.0596	0.0600
L	5.54	—	0.218	—
M	5.28	5.46	0.208	0.215
N	1.88	1.98	0.074	0.078
P	1/4-36 UNS-2A			

Ref.	Male			
	mm		Inch	
	Min.	Max.	Min.	Max.
A	2.36	3.43	0.093	0.135
B	3.43	4.01	0.135	0.158
C	0.000	0.076	0.0000	0.0030
D	2.29	2.49	0.090	0.098
E	0.03	0.13	0.001	0.005
G	40°	50°	40°	50°
H	1.514	1.524	0.0596	0.0600
J	2.03	2.29	0.080	0.090
L	6.38	6.73	0.251	0.265
M	4.547	4.577	0.1790	0.1802
N	3.493	3.508	0.1375	0.1381
P	0.919	0.935	0.0362	0.0368
Q	0.38	1.14	0.015	0.045
R	1/4-36 UNS-2B			

## Electrical Specifications

- ◇ Impedance : 50Ω
- ◇ Average Power : ≤0.5W
- ◇ Electrical Specifications :

Device	6650F27	
	Frequency	Specifications
loads	DC~26.5GHz	Return Loss -31.4dB VSWR 1.055
opens	DC~26.5GHz	Deviation from Nominal Phase±1.5°
shorts	DC~26.5GHz	Deviation from Nominal Phase±1.5°
adapters	DC~26.5GHz (operating up to 26.5GHz) , Return loss: -30.7dB, VSWR: -1.06, Insertion loss: 0.3dB	

\*The above specifications are relative to Agilent 85052D

## Materials

- Center conductor : beryllium bronze , gold plated
- Body : beryllium bronze , gold plated
- Connector nut : beryllium bronze , gold plated

## Standard

IEEE Std 287

## Mechanical Characteristic

- Connect/disconnect life : >500 times
- Maximum insertion force : 5.6N
- Coupling torque : 0.9 Nm
- Open-end wrench size : 8mm

## Environmental Requirements

Parameter	Limits
Operating Temperature	+20°C~ +26°C (suggested)
Storage Temperature	-40°C~ +75°C

