



2.92mm SOLT VNA Calibration Kit up to 40 GHz, Including Short Circuit, Open Circuit, Load, and Thru

Fairview Microwave's 2.92mm 40 GHz VNA calibration kit is used to calibrate a Vector Network Analyzer (VNA) and associated test setup, thus removing the test instrumentations influence on the device under test (DUT) and allowing the best possible error-free characterization of the DUT. The FMCK1018 SOLT cal kit includes 2.92mm male and female fully-characterized Short Circuits, Open Circuits, Fixed Loads, and Thrus used in a standard multi-port VNA calibration process. In addition to the RF calibration standards, a fixed torque break-over style torque wrench and a set of open-ended wrenches are included for use in mating and de-mating calibration components. Component correction factors have also been documented and are supplied in this VNA calibration kit datasheet. The data file may be downloaded from the FMCK1018 product page on Fairview Microwave's web site or requested by contacting technical support.

A properly performed n-port SOLT calibration allows for full characterization of the VNA test ports. RF calibrations performed using high-quality VNA test cables effectively extends the vector network analyzer test ports to the end of the cables, and this allows for greater flexibility when characterizing a product under test.

Available in-stock and ships same day!

Configuration

Connector Frequency Range 2.92mm DC to 40 GHz



Features:

- · SOL or SOLT versions available
- Cal kit definition files for Keysight, Rohde & Schwarz, and Anritsu VNAs
- Works with all major VNAs
- Protective wooden case for safe storage of components
- Torque wrench and tools included

Applications:

- Calibration of Vector Network Analyzers
- Research and development
- Aerospace and defense
- · Production test environments

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Electrical Specifications for FMCK1018 2.92mm Devices

Item		Part N	um	ber	Specifications		Frequency (GHz)		
Terminati Female Male	ons	FMTI FMTI			1.02 M 1.12 M	-			o 4 GHz 40 GHz
Shorts Female Male		FMS(± 2.0° from			DC	to 40
Opens Female Male		FMSC FMSC			± 1.5° from		viation minal	DC	to 40
Adapters Female Female/N Male	⁄lale	FMAC FMAC)11	27	1.05 M 1.08 M 1.12 M	lax	VSWR	4 t	to 4 to 20 to 40





FMSC3012 2.92mm Female Short Specifications







FMSC3013 2.92mm Male Short Specifications







FMSC3027 2.92mm Female Open Specifications



0.50 [12.7] Ø, 0.83 [21.08] Length

0.00025 ±0.00020

Dimensions

Pin Depth





FMSC3028 2.92mm Male Open Specifications







FMTR1057 2.92mm Female Termination Specifications







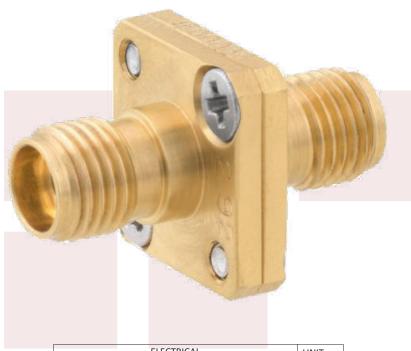
FMTR1058 2.92mm Male Termination Specifications







FMAD1126 2.92mm Female Thru Specifications



ELECTRICAL			UNIT	
Frequency Range		DC to 40		GHz
		DC to 4 GHz	1.05	Max
VSWR at Freq	uency Range	4 to 20 GHz	1.08	Max
		20 to 40 GHz	1.12	Max
Impedance		50		Ω
Typical Delay		58.2		ps
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MECHANICAL			
Housing	Gold Plated Beryllium Copper		
Connector	2.92mm Female to 2.92mm Female		
Screw Thread	1/4-36 UNS-2A		
Dimensions	0.50 [12.7] Ø, 0.80 [20.32] Length		
Pin Depth	0.000 - 0.002		





FMAD1127 2.92mm Female to Male Thru Specifications



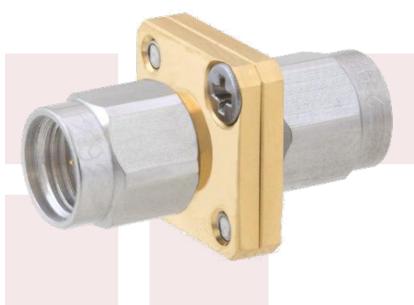
	ELECTRICAL			UNIT
Frequency Range		DC to 40		GHz
		DC to 4 GHz	1.05	Max
	VSWR at Frequency Range	4 to 20 GHz	1.08	Max
		20 to 40 GHz	1.12	Max
	Impedance	50		Ω
	Typical Delay	58.2		ps

MECHANICAL		
Housing Gold Plated Beryllium Copper		
Connector	2.92mm Female to 2.92mm Male	
Screw Thread	1/4-36 UNS-2B	
Dimensions	0.50 [12.7] Ø, 0.84 [21.336] Length	
Pin Depth	0.000 - 0.002	





FMAD1128 2.92mm Male Thru Specifications



ELECTRICAL			UNIT
Frequency Range	DC to 40		GHz
	DC to 4 GHz	1.05	Max
VSWR at Frequency Range	4 to 20 GHz	1.08	Max
	20 to 40 GHz	1.12	Max
Impedance	50		Ω
Typical Delay	58.2		ps

	MECHANICAL		
Housing	Gold Plated Beryllium Copper		
Connector	2.92mm Male to 2.92mm Male		
Screw Thread	1/4-36 UNS-2B		
Dimensions	0.50 [12.7] Ø, 0.88 [22.352] Length		
Pin Depth	0.000 - 0.002		





General Instructions and Usage Notes

#	Notes
1	Keep provided protective blue caps installed when not in use.
2	Store in climate controlled environment.
3	Always keep connectors clean.
4	Avoid touching the connector interface.
5	Use caution when handling.
6	For female components, do not insert male pin greater than 0.037" [.94 mm]. Failure to comply will result in damage to the female connector.
7	When mating, always ensure that the components to be interconnected remain in a fixed position while rotating only the coupling nut slowly to mate the connectors.
8	When de-mating, always ensure that the interconnected components remain in a fixed position while rotating only the coupling nut slowly to de-mate the connectors.
9	Visually inspect the connector threads prior to use. If needed, clean the center conductor pin and outer conductor with alcohol to remove any debris that may be present. Be sure to apply the alcohol in a circular motion with a lint-free cloth or applicator.
10	Use at room temperature.

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25 °C, sea level





2.92mm SOLT VNA Calibration Kit up to 40 GHz, Including Short Circuit, Open Circuit, Load, and Thru from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 2.92mm SOLT VNA Calibration Kit up to 40 GHz, Including Short Circuit, Open Circuit, Load, and Thru FMCK1018

URL: https://www.fairviewmicrowave.com/2.92mm-short-open-load-thru-solt-analyzer-calibration-kit-40ghz-fmck1018-p. aspx

