



VNA FREQUENCY EXTENDER CAL KIT

[Cal Kit FEK-19 - 40-60GHz](#)

[Cal Kit FEK-15 - 50-75GHz](#)

[Cal Kit FEK-12 - 60-90GHz](#)

[Cal Kit FEK-10 - 75-110GHz](#)

[Cal Kit FEK-06 - 110-170GHz](#)

[Cal Kit FEK-05 - 140-220GHz](#)

[Cal Kit FEK-03 - 220-325GHz](#)

Datasheet

Description

The FEK-03 calibration kit provides accurate calibration of the Vector Network Analyzer (VNA) in WR-03 band. It is compatible with TRL and SOLT calibration techniques.



Features

- Ensures accurate and repeatable measurements
- Contains characterisation data for the kit components in a suitable format for the VNA

Applications

- Millimeter wave S-parameter measurements that require system error correction

Specification	Unit	Min	Typ	Max
Operating Frequency Range	GHz	220		325
Frequency Band		J		
Waveguide Designation		WR-03, WG-32		
Flange Type		UG387/U-M-PF (Precision style)		
Cut Off Frequency	GHz	173.43 GHz		
Fixed Load VSWR		< 1.08:1		
Flush Short Flatness	mm	< 0.006		
Operating Temperature Range	°C	+20		+30

Content	Q-ty
Fixed Termination	1 off
Sliding Termination	1 off
Flush Short	1 off
¼ Lambda Offset – Band 1	1 off
¾ Lambda Offset – Band 1	1 off
K – Section Offset	1 off
¼ Lambda + K Section Offset	1 off
Accessories	
Torque Hex Driver 5/64" A/F	1 off
Hex Driver – 1/8" A/F	1 off
Flange Screws -Short	8 off
Flange Screw - Long	8 off
Alignment Pins	8 off
USB Flash Memory	1 off

Note :

Farran Technology reserves the right to change, without notice, the characteristic data and other specifications applied to this product. The product may be subject to Irish export restrictions.

Datasheet

Description

The FEK-05 calibration kit provides accurate calibration of the Vector Network Analyzer (VNA) in WR-05 band. It is compatible with TRL and SOLT calibration techniques.



Features

- Ensures accurate and repeatable measurements
- Contains characterisation data for the kit components in a suitable format for the VNA

Applications

- Millimeter wave S-parameter measurements that require system error correction

Specification	Unit	Min	Typ	Max
Operating Frequency Range	GHz	140		220
Frequency Band		G		
Waveguide Designation		WR-05, WG-30		
Flange Type		UG387/U-M-PF (Precision style)		
Cut Off Frequency	GHz	115.71 GHz		
Fixed Load VSWR		< 1.06:1		
Flush Short Flatness	mm	< 0.006		
Operating Temperature Range	°C	+20		+30

Content	Q-ty
Fixed Termination	1 off
Sliding Termination	1 off
Flush Short	1 off
¼ Lambda Offset – Band 1	1 off
¾ Lambda Offset – Band 1	1 off
K – Section Offset	1 off
¼ Lambda + K Section Offset	1 off
Accessories	
Torque Hex Driver 5/64" A/F	1 off
Hex Driver – 1/8" A/F	1 off
Flange Screws -Short	8 off
Flange Screw - Long	8 off
Alignment Pins	8 off
USB Flash Memory	1 off

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Description

The FEK-06 calibration kit provides accurate calibration of the Vector Network Analyzer (VNA) in WR-06 band. It is compatible with TRL and SOLT calibration techniques.



Features

- Ensures accurate and repeatable measurements
- Contains characterisation data for the kit components in a suitable format for the VNA

Applications

- Millimeter wave S-parameter measurements that require system error correction

Specification	Unit	Min	Typ	Max
Operating Frequency Range	GHz	110		170
Frequency Band		D		
Waveguide Designation		WR-06, WG-29		
Flange Type		UG387/U-PF (Precision style)		
Cut Off Frequency	GHz	90.76 GHz		
Fixed Load VSWR		< 1.04:1		
Flush Short Flatness	mm	< 0.006		
Operating Temperature Range	°C	+20		+30

Content	Q-ty
Fixed Termination	1 off
Sliding Termination	1 off
Flush Short	1 off
¼ Lambda Offset – Band 1	1 off
¾ Lambda Offset – Band 1	1 off
K – Section Offset	1 off
¼ Lambda + K Section Offset	1 off
Accessories	
Torque Hex Driver 5/64" A/F	1 off
Hex Driver – 1/8" A/F	1 off
Flange Screws -Short	8 off
Flange Screw - Long	8 off
Alignment Pins	8 off
USB Flash Memory	1 off

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Description

The FEK-10 calibration kit provides accurate calibration of the Vector Network Analyzer (VNA) in WR-10 band. It is compatible with TRL and SOLT calibration techniques.



Features

- Ensures accurate and repeatable measurements
- Contains characterisation data for the kit components in a suitable format for the VNA

Applications

- Millimeter wave S-parameter measurements that require system error correction

Specification	Unit	Min	Typ	Max
Operating Frequency Range	GHz	75		110
Frequency Band		W		
Waveguide Designation		WR-10, WG-27		
Flange Type		UG387/U (Precision style)		
Cut Off Frequency	GHz	59.0143 GHz		
Fixed Load VSWR		< 1.04:1		
Flush Short Flatness	mm	< 0.006		
Operating Temperature Range	°C	+20		+30

Content	Q-ty
Fixed Termination	1 off
Sliding Termination	1 off
Flush Short	1 off
¼ Lambda Offset	1 off
Accessories	
Torque Hex Driver 5/64" A/F	1 off
Hex Driver – 1/8" A/F	1 off
Flange Screws -Short	8 off
Flange Screw - Long	8 off
Alignment Pins	8 off
USB Flash Memory	1 off

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Description

The FEK-12 calibration kit provides accurate calibration of the Vector Network Analyzer (VNA) in WR-12 band. It is compatible with TRL and SOLT calibration techniques.



Features

- Ensures accurate and repeatable measurements
- Contains characterisation data for the kit components in a suitable format for the VNA

Applications

- Millimeter wave S-parameter measurements that require system error correction

Specification	Unit	Min	Typ	Max
Operating Frequency Range	GHz	60		90
Frequency Band		E		
Waveguide Designation		WR-12, WG-26		
Flange Type		UG387/U (Precision style)		
Cut Off Frequency	GHz	48.3692 GHz		
Fixed Load VSWR		< 1.04:1		
Flush Short Flatness	mm	< 0.006		
Operating Temperature Range	°C	+20		+30

Content	Q-ty
Fixed Termination	1 off
Sliding Termination	1 off
Flush Short	1 off
¼ Lambda Offset	1 off
Accessories	
Torque Hex Driver 5/64" A/F	1 off
Hex Driver – 1/8" A/F	1 off
Flange Screws -Short	8 off
Flange Screw - Long	8 off
Alignment Pins	8 off
USB Flash Memory	1 off

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Datasheet

Description

The FEK-15 calibration kit provides accurate calibration of the Vector Network Analyzer (VNA) in WR-15 band. It is compatible with TRL and SOLT calibration techniques.



Features

- Ensures accurate and repeatable measurements
- Contains characterisation data for the kit components in a suitable format for the VNA

Applications

- Millimeter wave S-parameter measurements that require system error correction

Specification	Unit	Min	Typ	Max
Operating Frequency Range	GHz	50		75
Frequency Band		V		
Waveguide Designation		WR-15, WG-25		
Flange Type		UG385/U (Precision style)		
Cut Off Frequency	GHz	39.8765 GHz		
Fixed Load VSWR		< 1.03:1		
Flush Short Flatness	mm	< 0.006		
Operating Temperature Range	°C	+20		+30

Content	Q-ty
Fixed Termination	1 off
Sliding Termination	1 off
Flush Short	1 off
¼ Lambda Offset	1 off
Accessories	
Torque Hex Driver 5/64" A/F	1 off
Hex Driver – 1/8" A/F	1 off
Flange Screws -Short	8 off
Flange Screw - Long	8 off
Alignment Pins	8 off
USB Flash Memory	1 off

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Datasheet

Description

The FEK-19 calibration kit provides accurate calibration of the Vector Network Analyzer (VNA) in WR-19 band. It is compatible with TRL and SOLT calibration techniques.



Features

- Ensures accurate and repeatable measurements
- Contains characterisation data for the kit components in a suitable format for the VNA

Applications

- Millimeter wave S-parameter measurements that require system error correction

Specification	Unit	Min	Typ	Max
Operating Frequency Range	GHz	40		60
Frequency Band		U		
Waveguide Designation		WR-19, WG-24		
Flange Type		UG383/U (Precision style)		
Cut Off Frequency	GHz	31.3919 GHz		
Fixed Load VSWR		< 1.03:1		
Flush Short Flatness	mm	< 0.006		
Operating Temperature Range	°C	+20		+30

Content	Q-ty
Fixed Termination	1 off
Sliding Termination	1 off
Flush Short	1 off
¼ Lambda Offset	1 off
Accessories	
Torque Hex Driver 5/64" A/F	1 off
Hex Driver – 1/8" A/F	1 off
Flange Screws -Short	8 off
Flange Screw - Long	8 off
Alignment Pins	8 off
USB Flash Memory	1 off

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