KI TK054

POF Test Kit



Optical Communications Test Applications

- POF and PCS power and loss testing
- POF and PCS cabling contractors

Revision 12

The POF Pocket 9000 FiberTester Kit KI-TK054 is a high performance, cost-effective testing kit designed for plastic optical fiber (POF) up to 1 mm core diameter, large core 200/230 and 400/430 Plastic Clad Silica (PCS) fiber at 650/660 nm.

Features

- Large 5 mm Si detector ideal for POF and PCS testing
- 3 years warranty
- Calibrations at 8 wavelengths
- ISO 17025 traceable calibration certificate
- Industry standard screw-on connector adaptors for meter
- Interchangeable adaptor for light source
- Optical Test Tone Detection
- Long battery life
- Compact, rugged & light weight
- Max / min recording
- Sunlight readable display
- Made in Australia

KI TK054 – POF Test Kit

The POF Pocket 9000 FiberTester Kit, KI-TK054 combines KI9809AM 660 nm LED light source, with and KI9600XL-Si5 power meter with 5.0 mm large area Si detector. Calibrations are ISO 17025 traceable.

The interchangeable adaptor of the light source allows end user to connect the test kit to optical link with variety of POF connector types.

The light source test tone function can be used with a compatible optical power meter for fiber detection, continuity testing and fault finding.

The long battery life eliminates the requirement for rechargeable batteries and time-consuming re-charging procedures.

KI9600XL-SI5 POWER METER SPECIFICATIONS

Detector type	Response λ nm	Damage level dBm	Calibration λ nm	Power range dBm	Midrange linearity[1] dB	Calibration Accuracy %	λ Sensitivity ± 30 nm[2] dB	Polarization Sensitivity dB	Total Uncertainty[2,3] dB
5.0 mm Si	350 ~ 1100	+10	470, 520, **635, 650, 660, 780, 820, 850,** 980	+5 ~ -50 +5 ~ -60	0.04	2 % (0.09 dB)	0.03	< 0.005	0.3
					typical		typical	typical	max

Note 1: Midrange linearity @ 850 nm. Non-coherent light. Excludes top 5 dB and bottom 10 dB of range.

Note 2: At calibration wavelengths in bold type.

Note 3: Includes contributions of: varying optical connector types, calibration uncertainty, linearity over temperature & range, and fiber core diameter up to 1 mm (for 5 mm detector, max NA= 0.5) or fiber core diameter up to 3 mm (for 5 mm detector, max NA= 0.3).

KI9809AM LIGHT SOURCE SPECIFICATIONS

Parameter	Value 660 nm LED	Comments
Output Power (Fiber Type)	-6 dBm (1 mm POF)	± 1 dB
Short term stability, dB	0.01	For 15 min, typical ± Δ 2°C, after warm-up
Stability over temp, dB	0.35	Typical, over temperature
λ initial tolerance, nm	15	@ 25 °C
λ width, nm	25	FWHM, typical
Modulation	270 Hz, 1 KHz, 2 KHz	± 2 %

GENERAL SPECIFICATIONS

Parameter	Value
KI 9600XL-Si5 Power Meter	
Battery life	300 hours
Tone detection	200 - 2500 Hz ±2 %
Max / min	Recording feature for stability testing
Connector Interface	Mounting screw thread 7/8" 28 TPI – UN - 2B
KI 9809AM Light Source	
Battery life	35 hours in Autotest, typical
Connector interface	SC/Hybrid interchangeable adaptor
Common	
Size	124 x 81 x 25 mm, 4.9 x 3.2 x 1.0"
Weight per unit	0.15 kg, 0.33 lb. Shipping 0.5 kg, 1.1 lb.
Operating / Storage	-15 to 55 °C / -25 to 70 °C
Case	Polycarbonate, 1-meter drop tested
Power	2 alkaline AAA cells. Selectable auto-off, low battery indicator

Australian and international patents. Technical data is subject to change without notice as part of our program of continuous improvements. Class 1 Laser/ LED product, complies IEC60825-1 and 21CFR1040.10.

ORDERING INFORMATION

Description	Part number
Kit, Small Pocket, POF 9000	KI-TK054

i. Please enquire for warranty extension options, re-calibration services.

ii. Standard 3 years of warranty for instrument only.

STANDARD EQUIPMENT / ACCESSORIES

Description	Quantity
Instrument, Source 660 nm LED (KI9809AM)	1
Instrument, Power Meter Si 5mm (KI9600XI-Si5)	1
Option, Connector Adaptor, SC/HFBR (OPT078)	1
Option, Connector Adaptor XL 7/8-28, HFBR (OPT231)	1
Soft carry pouch (OPT156)	2
Wrist strap	2
Quick reference guide	2
QA certificate	2 (1 for each instrument)
ILAC/ NATA traceable calibration certificate	1 (for KI9600XL-Si5 only)

Please remember to order one or more styles of screw-on connector adaptors for the power meter.

OPTIONAL INTERCHANGEABLE ADAPTORS FOR LIGHT SOURCE

Description	Part number
Option, Hybrid Adaptor, Ceramic Sleeve, SC/FC	OPT051
Option, Hybrid Adaptor, SC/HFBR	OPT078
Option, Hybrid Adaptor, Ceramic Sleeve, SC/ST	OPT040
Option, Hybrid Adaptor, Ceramic Sleeve, SC/D4	OPT055
Option, Hybrid Adaptor, Ceramic Sleeve, SC/MU	OPT080
Option, Hybrid Adaptor, Ceramic Sleeve, SC/LSA-DIN47256	OPT071
Option, Hybrid Adaptor, Ceramic Sleeve, SC/E2000	OPT060
Option, Hybrid Adaptor, Ceramic Sleeve, SC/E2000 Green	OPT060G
Option, Hybrid Adaptor, Ceramic Sleeve, SC/SC	OPT046
Option, Hybrid Adaptor, Ceramic Sleeve, SC/Universal 2.5 mm	OPT081
Option, Hybrid Adaptor, Metal Sleeve, SC/SMA 905/906	OPT082
Option, Hybrid Adaptor, SC/POF multi POF Multi-Adapter for POF light source. For: HFBR all types, bare POF, Mini Toslink, 2.5mm. Turn turret to the required hole size: 3.85, 3.5, 3.2, 2.55, 2.4, 2.3 mm x 8.5 mm deep.	OPT077



OPTIONAL INTERCHANGEABLE ADAPTORS FOR POWER METER

Description	Part number
POF optimized adaptors:	
Option, Connector Adaptor XL 7/8-28, POF multi For: Mini Toslink, unterminated POF cable, HFBR series (simplex and duplex), 2.5mm. The user turns the turret to the required hole size. Actual hole size 3.85, 3.5, 3.2, 2.55, 2.4, 2.3 mm x 8.5 mm deep.	OPT229
Option, Connector Adaptor XL 7/8-28, Toslink	OPT230
Option, Connector Adaptor XL 7/8-28, SMA 905/906	OPT203
Option, Connector Adaptor XL 7/8-28, HFBR	OPT231
Option, Connector Adaptor XL 7/8-28, POF SC	OPT201-POF
Option, Connector Adaptor XL 7/8-28, POF ST	OPT202-POF
Option, Connector Adaptor XL 7/8-28, POF FC	OPT204-POF
Option, Connector Adaptor XL 7/8-28, POF 2.5 mm universal	POF225-POF

The adaptors are industry standard 7/8" 28 TPI screw-on connector adaptor. They are suitable for both PC and APC polish connectors. Other styles available on request.



AUTHORIZED DEALER

KINGFISHER a TEMPO company

Kingfisher International Pty Ltd
720 Springvale Road, Mulgrave
VIC 3170 Australia

T +61 3 8544 1700
F +61 3 8544 1793
E sales@kingfisher.com.au

kingfisherfiber.com