

Return path test generator

Test generator TKG 864 is intended for measurements and corrections of return path parameters in cable networks.

Features:

- Very stable
- Compact design
- Flat output characteristic
- High output level
- Replaceable accumulators
- Accumulators charging possibility
- Full workday operation
- Strong aluminum case

Application areas:

- Cable networks
- Low frequency telecommunication systems

Product description:

TKG 864 is mobile return path test generator. TKG 864 was designed as compact and handy device, what generates equal harmonics of 8MHz internal oscillator up to 64MHz. Output level is fixed on 108.5dB μ V. TKG is equipped with two AA-type rechargeable accumulators. In case, if accumulators are out of order, it is possible replace them very easy. Generator TKG 864 represents useful, reliable and effective measurement instrument for using by building and maintenance of cable networks.



Figure 1: TKG 864 – compact and easy in work.

Technical specifications:

Parameter	Specification
Output frequencies	8, 16, 24, 32, 40, 48, 56, 64MHz
Output impedance	75Ω
Output level	108.5dBμV
Flatness	± 1dB (typical ± 0.5dB)
Spurious in band	60dBc
Spurious out of band	70dBc
Operating time (2xAA-type new accum. 2600mAh)	25 hours
Accumulators	2 pcs., AA-type, NiMH, 1.2V
Battery charging duration (2600mAh accumulators)	16 hours
Charging voltage	+7.5 up to +10V
Low battery indicator	built-in
External +9V adapter for charging	part of a final set
Connector	F-type, female
Dimensions	112 x 40 x 36 mm

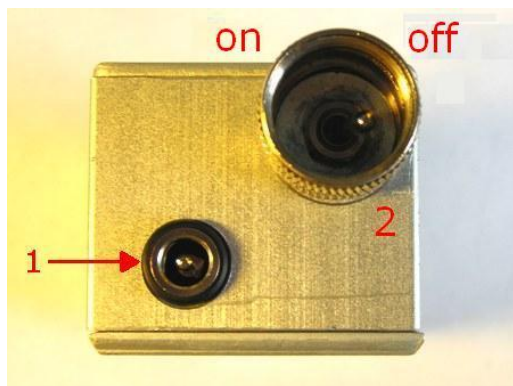


Figure 2: TKG 864 – input for charging and power switch.

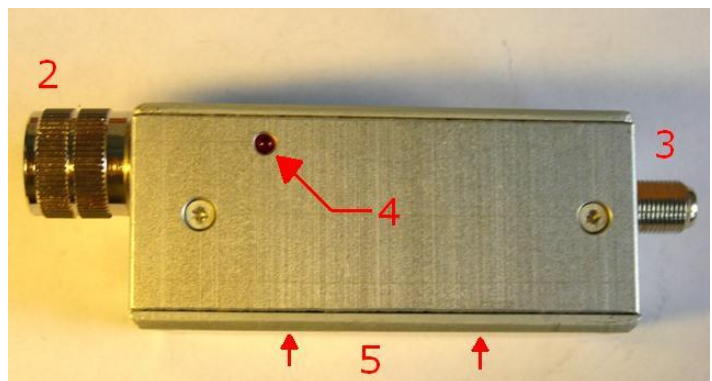


Figure 3: TKG 864 – low battery indicator and batteries/accumulators place.

- 1) Input for external charging adapter (+7.5 up to +10V). **!NB!**
- 2) Power on/off switch. In charge time switch generator off.
- 3) Generator output.
- 4) Low battery indicator. If battery/accumulator voltage is under +2V (2xAA), LED is on.
- 5) Batteries/accumulators place. In case of need unscrew case (in corners of top cover 4 screws) and replace batteries/accumulators.



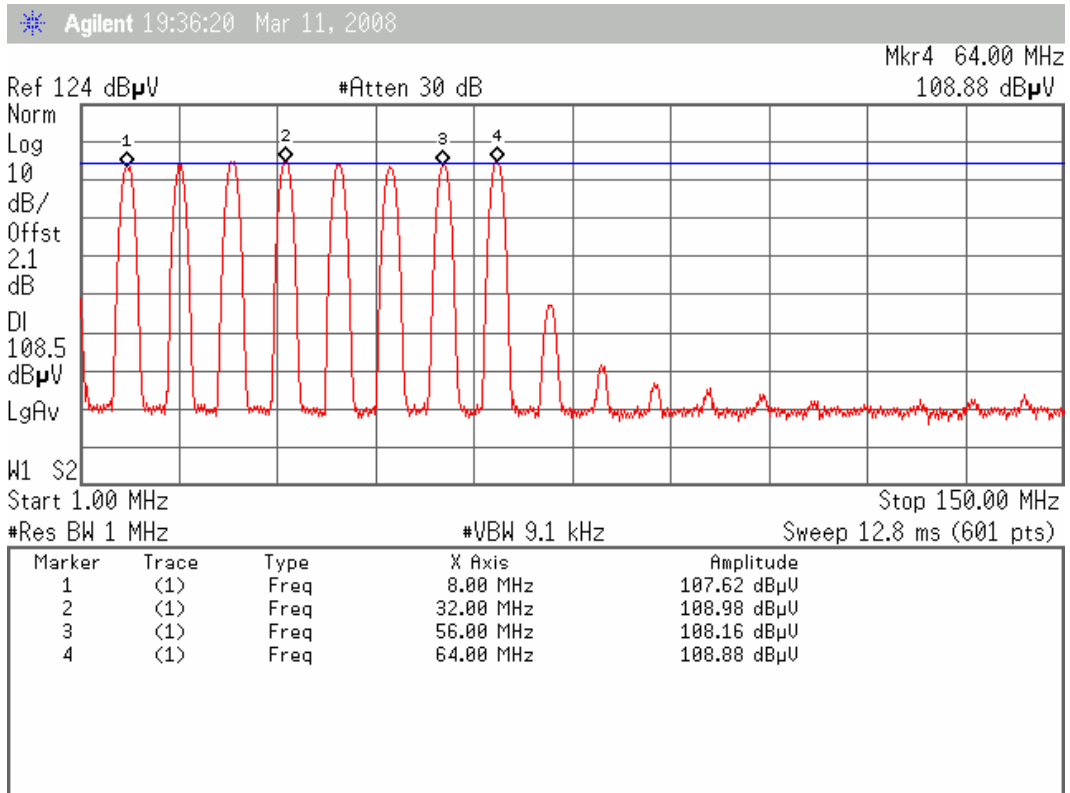


Figure 4: TKG 864 output signal spectrum 1-150MHz (RBW= 1MHz).

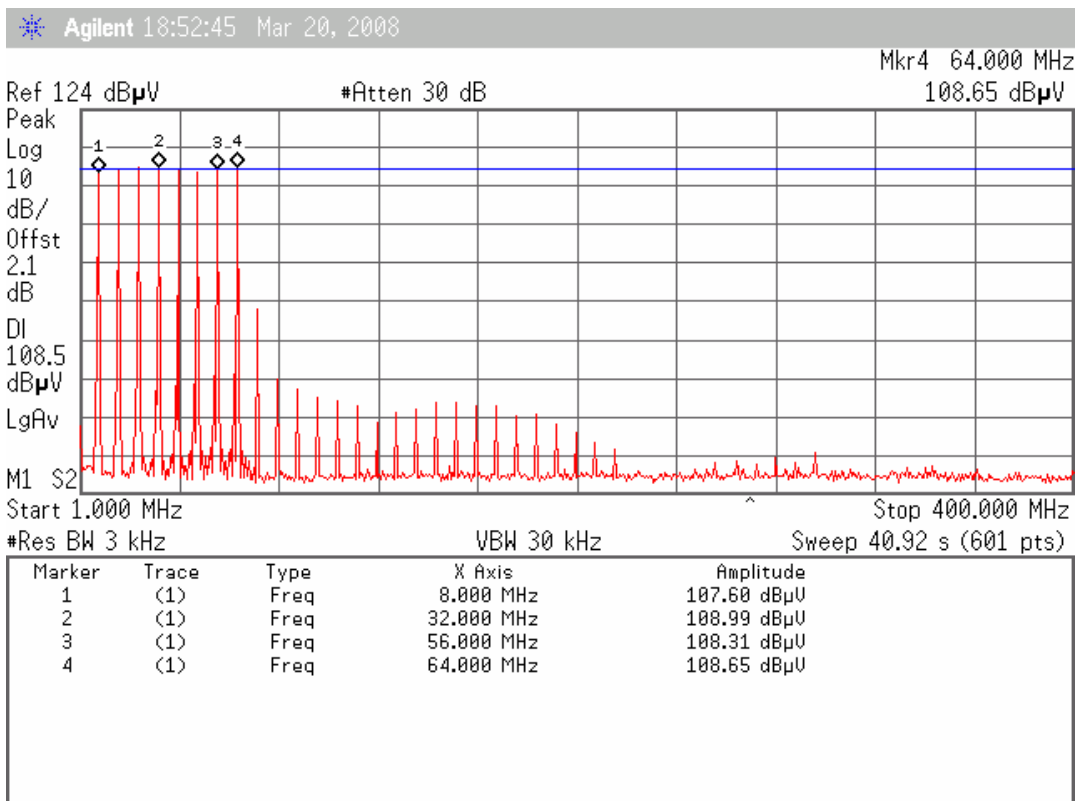


Figure 5: TKG 864 output signal spectrum 1-400MHz (RBW= 3kHz).