

RF-Converter Unit: adjustment of the YIG oscillator characteristic and dynamic

• Static YIG adjustment

To carry out the static YIG adjustment following Analyzer settings are necessary. Please give the Analyzer at least 39 min time to warm-up before the adjustments been done.

[SETUP] (ENTER PASSWORD)	Enter password 894129 and press enter [GHZ]
(SERVICE FUNCTION)	Enter service function 2.10.1.13 and press enter [GHZ]

FSEA / FSIG03	FSEB / M / K	Adjust
Span	ZERO	
Center	1 MHz	R 125
Center	3,5 GHz	R 87

The adjustment have to be done mutual du to an influence from each other. Repeat adjustment on booth centerfrequencies as often as necessary until the voltage MUX 10.13 shown is equal to 0V +/- 100 mV.

• Dynamic YIG adjustment

Test setup:

- connect oscilloscope channel 1 to SWEEP socket (trigger signal)
- connect oscilloscope channel 2 to X130.A17 (test output YIGCON)

Adjustment of the Analyzer. Please note that a sweeptime of 5 ms is settled.

FSEA/FSIQ03/ESIB03	0 HZ	
FSEB/M/K	0 HZ	6,999 GHz
START frequency	STOP frequency	

Set R148 and R21 on the RF Module such that the voltage at X130.A17 does not exceed a value during +/- 4V during the two sweeps.

