

# Go/No Go Test

- electrical -



**Xperia™ ZL**  
**C6502, C6503, C6506 & L35h**

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***C6502 and L35h no LTE is ONLY implemented in SERPII.***

***C6503 and C6506 all bands is ONLY implemented in CMWrun***

## 1 Go/No Go Testing

This Go/No Go testing has to be carried out in two ways, with an:

- Antenna Coupler.
- Cable in shield box.

**For more information on Antenna Coupler and Cable in shield box testing, refer to 1220-1336: Generic Repair Manual – electrical, section ‘Setup Go/NoGo Test’!**

**For part no’s on the equipment below, refer to the ‘Tools Catalogue/Matrix’!**

### 1.1 Antenna Coupler C6502 and L35h no LTE

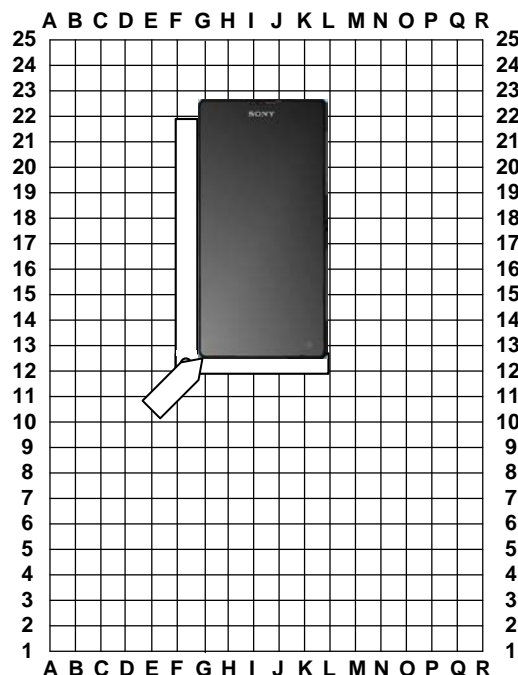
The following equipment has to be used:

- Rohde & Schwartz RF Shield Package
  - Rohde & Schwartz RF Shield Box CMU-Z11
  - Rohde & Schwartz RF Coupler
  - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

**GSM-850/900/1800/1900**

**WCDMA-850/900/1700/1900/2100**

Put the grid positioning holder with its reference point in position **F12** and place the phone as shown in the adjacent picture.



### 1.2 Antenna Coupler C6503 and C6506 all bands

The following equipment has to be used:

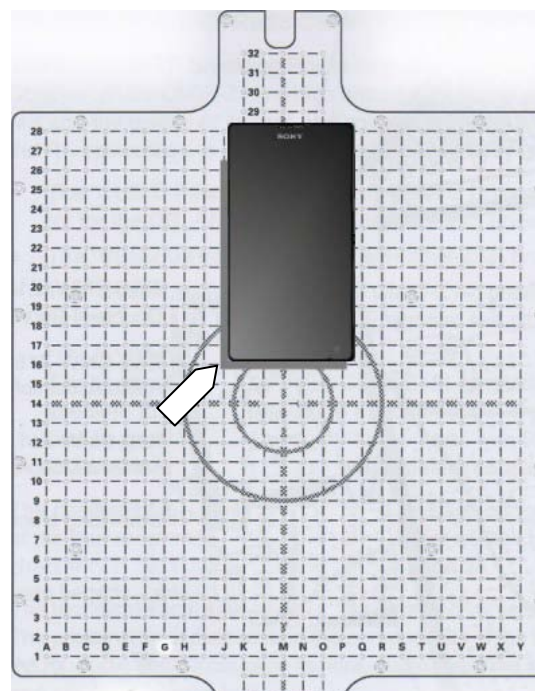
- Rohde & Schwartz RF Shield Package
  - Rohde & Schwartz RF Shield Box CMW-Z10
  - Rohde & Schwartz RF Coupler CMW-Z11
  - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

**GSM-850/900/1800/1900**

**WCDMA-850/900/1700/1900/2100**

**LTE-Band 1/2/3/4/5/7/8/17/20**

Put the grid positioning holder with its reference point in position **J16** and place the phone as shown in the adjacent picture.



## Go/NoGo Testing

### 1.3 Direct Line

The following equipment has to be used:

- RF Test Cable Flexible 1M
- RF Probe
- Micro USIM Card, instrument specific.

Connect the RF Probe as shown in the adjacent picture.

**To get access to the RF connector on the PBA, refer to 1271-7733: C65 Mechanical Working Instructions, Chapter 3.1!**



## Go/NoGo Testing

***Follow the directions stated in 'Go/NoGo Test Script Parameters' to be found in 1220-1336: Generic Repair Manual – electrical, together with the 'Attenuation Factors' below!***

This phone is available in four versions, C6502, C6503, C6506 and L35h, including the following bands:

### **C6502 and L35h:**

GSM-850/900/1800/1900

WCDMA-850/900 /1700 /1900 /2100

### **C6503:**

GSM-850/900/1800/1900

WCDMA-850/900/2100

LTE-Band 1/3/5/7/8/20

### **C6506:**

GSM-850/900/1800/1900

WCDMA-850/900 /1700 /1900 /2100

LTE-Band 1/2/4/5/17

## Go/NoGo Testing

### 1.4 Attenuation Factors

*The attenuation values listed below in 1.3.1 and 1.3.2 is valid only when the equipment listed on the previous pages is being used!*

#### 1.4.1 Loss Values – Antenna Coupler CMU-Z11

Band	Channel	Attenuation C6502 and L35h	
		Rx	Tx
GSM 850	Low	7.00	12.14
	Mid	7.00	9.79
	High	7.00	10.44
GSM 900	Low	4.50	7.42
	Mid	4.50	5.24
	High	4.50	3.06
GSM 1800	Low	8.00	15.61
	Mid	8.00	14.10
	High	8.00	13.44
GSM 1900	Low	10.00	8.40
	Mid	10.00	9.81
	High	10.00	10.40
WCDMA 850	Low	7.50	8.01
	Mid	8.00	7.93
	High	8.50	7.53
WCDMA 900	Low	9.00	6.61
	Mid	9.50	6.42
	High	9.00	6.71
WCDMA 1700	Low	12.50	12.90
	Mid	11.50	13.20
	High	12.00	12.94
WCDMA 1900	Low	7.00	9.94
	Mid	8.00	7.91
	High	8.50	7.65
WCDMA 2100	Low	6.00	7.36
	Mid	6.50	8.39
	High	6.00	8.99

## 1.4.2 Loss Values – Antenna Coupler CMW-Z11

Band	Channel	Attenuation C6503		Attenuation C6506	
		Rx	Tx	Rx	Tx
GSM 850	Low	9.00	8.36	10.00	6.94
	Mid	9.00	9.26	10.00	8.67
	High	10.00	10.15	10.50	9.85
GSM 900	Low	12.00	8.10	14.00	10.09
	Mid	16.00	9.29	16.00	9.66
	High	19.00	10.88	24.50	9.15
GSM 1800	Low	10.00	11.97	9.50	12.45
	Mid	9.00	10.35	9.50	9.59
	High	9.00	10.40	10.50	9.94
GSM 1900	Low	11.00	10.09	11.00	10.50
	Mid	13.00	10.21	10.50	11.42
	High	12.00	12.50	10.00	12.75
WCDMA 850	Low	10.00	5.76	12.00	7.00
	Mid	10.00	6.74	12.50	7.45
	High	11.00	7.48	12.50	8.53
WCDMA 900	Low	14.00	6.70	18.00	9.72
	Mid	18.00	8.04	19.50	10.17
	High	18.00	8.89	24.00	12.19
WCDMA 1700	Low			14.00	9.90
	Mid			14.00	9.00
	High			13.00	8.85
WCDMA 1900	Low			13.00	9.88
	Mid			14.00	9.73
	High			14.00	10.22
WCDMA 2100	Low	15.00	9.25	13.50	10.00
	Mid	14.00	9.67	13.00	11.50
	High	14.00	10.91	13.50	11.05
LTE BAND 1	Low	13.00	11.85	12.00	12.2
	Mid	12.00	12.03	11.00	13.5
	High	11.00	13.29	11.00	12.65
LTE BAND 2	Low			11.00	10.95
	Mid			12.00	11.25
	High			12.00	12.05

LTE BAND 3	Low	9.00	12.44		
	Mid	9.00	11.35		
	High	9.00	11.30		
LTE BAND 4	Low			12.00	12.35
	Mid			12.00	11.6
	High			11.00	11.56
LTE BAND 5	Low	8.00	8.33	11.00	9.58
	Mid	8.00	9.05	11.00	10.4
	High	8.00	9.53	11.00	11.3
LTE BAND 7	Low	15.00	15.43		
	Mid	17.50	17.27		
	High	16.00	18.57		
LTE BAND 8	Low	11.00	9.13		
	Mid	15.00	10.20		
	High	18.00	11.27		
LTE BAND 17	Low			5.00	6.45
	Mid			5.00	6.26
	High			5.00	6.27
LTE BAND 20	Low	6.00	9.14		
	Mid	6.00	10.14		
	High	6.50	10.27		



## Go/NoGo Testing: Attenuation Factors

### 1.4.3 Loss Values – Direct Line

Band	Channel	Attenuation	
		Rx	Tx
GSM 850	All	1.0	1.0
GSM 900	All	1.0	1.0
GSM 1800	All	2.3	2.3
GSM 1900	All	2.3	2.3
WCDMA 850	All	2.5	2.5
WCDMA 900	All	2.5	2.5
WCDMA 1700	All	1.3	1.3
WCDMA 1900	All	1.3	1.3
WCDMA 2100	All	1.3	1.3

## 2 Revision History

Rev.	Date	Changes / Comments
1	2013-Feb-28	Initial release