

## Go/No Go Test



*Xperia C5 Ultra*

*E5506, E5533, E5553, E5563*

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*E5506 is implemented in SERP11.*

*E5533 is implemented in SERP11.*

*E5553 is implemented in SERP11.*

*E5563 is implemented in SERP11.*

## 1 Go/No Go Testing

This Go/No Go testing has to be carried out in one way, with an:

- Antenna Coupler.

**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 E5506, E5533, E5553 and E5563 no LTE

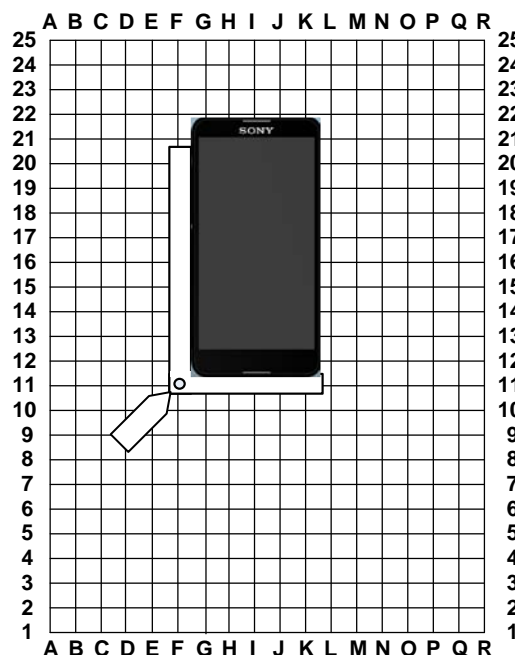
The following equipment has to be used:

- 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 **F11** and place the phone as shown in the adjacent picture.



### 1.2 Antenna Coupler E5506, E5533, E5553 and E5563 all bands

The following equipment has to be used:

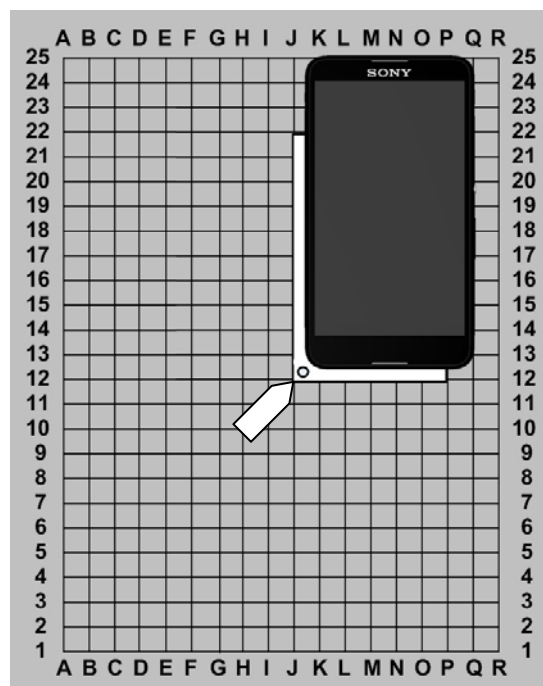
- Rohde & Schwartz RF Shield Package
  - Rohde & Schwartz RF Shield Box CMW-Z11
  - Rohde & Schwartz RF Coupler
  - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

LTE BAND-1/2/3/4/5/7/8/12/13/17/20/28

Put the grid positioning holder with its reference point in position **J12** and place the phone as shown in the adjacent picture.



## 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 4 variants E5506, E5533, E5553 and E5563 including the following bands:

### **E5506:**

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1700/ 1900 / 2100

LTE- 2 / 4 / 5 / 7 / 12 / 13 / 17 / 28

### **E5533:**

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1900 / 2100

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

### **E5553:**

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1900 / 2100

LTE- 1 / 3 / 7 / 8 / 28

### **E5563:**

GSM- 850 / 900 / 1800 / 1900

WCDMA- 850 / 900 / 1900 / 2100

LTE- 1 / 3 / 7 / 8 / 28

## Go/NoGo Testing

### 1.3 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!*

#### 1.3.1 Loss Values – Antenna Coupler CMU-Z11, E5506 and E5333

Band	Channel	Attenuation E5506		Attenuation E5333	
		Rx	Tx	Rx	Tx
GSM 850	Low	20.50	20.94	20.50	20.94
	Mid	19.00	20.01	19.00	20.01
	High	19.00	20.55	19.00	20.55
GSM 900	Low	21.00	22.34	21.00	22.34
	Mid	22.00	22.06	22.00	22.06
	High	24.00	21.83	24.00	21.83
GSM 1800	Low	18.00	23.36	18.00	23.36
	Mid	17.00	19.00	17.00	19.00
	High	16.00	18.14	16.00	18.14
GSM 1900	Low	16.50	15.62	16.50	15.62
	Mid	16.00	14.64	16.00	14.64
	High	18.00	14.12	18.00	14.12
WCDMA 850	Low	17.50	21.62	17.50	21.62
	Mid	17.00	21.41	17.00	21.41
	High	17.00	21.24	17.00	21.24
WCDMA 900	Low	20.00	19.56	20.00	19.56
	Mid	21.50	18.77	21.50	18.77
	High	23.00	18.75	23.00	18.75
WCDMA 1700	Low	22.00	23.67		
	Mid	22.50	23.94		
	High	22.50	23.83		
WCDMA 1900	Low	14.50	16.64	14.50	16.64
	Mid	15.00	13.87	15.00	13.87
	High	17.50	14.60	17.50	14.60
WCDMA 2100	Low	18.50	16.56	18.50	16.56
	Mid	20.50	18.33	20.50	18.33
	High	20.00	20.00	20.00	20.00

## Go/NoGo Testing

### 1.3.2 Loss Values – Antenna Coupler CMU-Z11, E5553 and E5563

Band	Channel	Attenuation E5553		Attenuation E5633	
		Rx	Tx	Rx	Tx
GSM 850	Low	20.50	20.94	20.50	20.94
	Mid	19.00	20.01	19.00	20.01
	High	19.00	20.55	19.00	20.55
GSM 900	Low	21.00	22.34	21.00	22.34
	Mid	22.00	22.06	22.00	22.06
	High	24.00	21.83	24.00	21.83
GSM 1800	Low	18.00	23.36	18.00	23.36
	Mid	17.00	19.00	17.00	19.00
	High	16.00	18.14	16.00	18.14
GSM 1900	Low	16.50	15.62	16.50	15.62
	Mid	16.00	14.64	16.00	14.64
	High	18.00	14.12	18.00	14.12
WCDMA 850	Low	17.50	21.62	17.50	21.62
	Mid	17.00	21.41	17.00	21.41
	High	17.00	21.24	17.00	21.24
WCDMA 900	Low	20.00	19.56	20.00	19.56
	Mid	21.50	18.77	21.50	18.77
	High	23.00	18.75	23.00	18.75
WCDMA 1900	Low	14.50	16.64	14.50	16.64
	Mid	15.00	13.87	15.00	13.87
	High	17.50	14.60	17.50	14.60
WCDMA 2100	Low	18.50	16.56	18.50	16.56
	Mid	20.50	18.33	20.50	18.33
	High	20.00	20.00	20.00	20.00

## Go/NoGo Testing

## 1.3.3 Loss Values – Antenna Coupler CMW-Z11, E5533, E5553, E5563 and E5506

Band	Channel	Attenuation E5553 and E5563		Attenuation E5533		Attenuation E5506	
		Rx	Tx	Rx	Tx	Rx	Tx
GSM 850	Low	20.00	10.80	14.00	12.23	18.00	10.65
	Mid	15.00	11.40	14.00	15.00	18.00	10.51
	High	21.00	14.00	15.00	16.78	19.00	12.50
GSM 900	Low	27.00	18.00	26.00	17.48	29.00	16.40
	Mid	26.00	18.40	30.00	18.46	34.00	16.75
	High	37.00	22.00	32.00	21.92	35.00	20.40
GSM 1800	Low	23.00	14.24	18.00	14.33	28.00	12.90
	Mid	15.00	13.50	14.00	16.24	26.00	13.77
	High	19.00	13.55	13.00	17.29	22.00	16.30
GSM 1900	Low	20.00	15.00	14.00	17.63	15.00	15.00
	Mid	17.00	15.00	14.00	15.37	15.00	15.00
	High	20.00	15.00	16.00	15.13	15.00	15.00
WCDMA 850	Low	18.00	14.83	18.00	14.83	16.00	9.47
	Mid	18.00	16.00	18.00	16.00	17.00	10.40
	High	19.00	17.00	19.00	17.00	17.00	11.10
WCDMA 900	Low	29.00	10.77	29.00	10.77	26.00	9.20
	Mid	33.00	11.60	33.00	11.60	30.00	9.70
	High	35.00	14.40	35.00	14.40	32.00	12.30
WCDMA 1700	Low					27.00	14.00
	Mid					24.00	16.40
	High					25.00	18.30
WCDMA 1900	Low	17.00	16.50	17.00	16.50	17.00	20.30
	Mid	17.00	14.00	17.00	14.00	17.00	18.80
	High	19.00	13.50	19.00	13.50	20.00	14.00
WCDMA 2100	Low	30.00	14.50	30.00	14.50	27.00	14.24
	Mid	28.00	15.70	28.00	15.70	27.00	14.70
	High	28.00	16.40	28.00	16.40	28.00	16.80
LTE Band 1	Low	28.00	15.00	28.00	15.00		
	Mid	28.00	15.70	28.00	15.70		
	High	26.00	17.70	26.00	17.70		
LTE Band 2	Low					13.00	20.90
	Mid					17.00	18.80
	High					17.00	15.30

### Go/NoGo Testing

Band	Channel	Attenuation E5553 and E5563		Attenuation E5533		Attenuation E5506	
		Rx	Tx	Rx	Tx	Rx	Tx
LTE Band 3	Low	17.00	17.10	17.00	17.10		
	Mid	14.00	18.50	14.00	18.50		
	High	15.00	18.60	15.00	18.60		
LTE Band4						22.00	15.10
						22.00	17.30
						23.00	18.94
LTE Band 5	Low			15.00	15.30	13.00	15.30
	Mid			14.00	16.10	13.00	15.80
	High			16.00	17.00	14.00	16.30
LTE Band 7	Low	20.00	20.40	20.00	20.40	19.00	23.00
	Mid	22.00	18.70	22.00	18.70	22.00	19.80
	High	25.00	18.30	25.00	18.30	24.00	17.40
LTE Band 8	Low	25.00	16.20	25.00	16.20		
	Mid	28.00	17.00	28.00	17.00		
	High	30.00	19.40	30.00	19.40		
LTE Band 12	Low					11.00	9.90
	Mid					11.00	9.90
	High					12.00	5.05
LTE Band 13	Low					14.00	13.80
	Mid					14.00	13.80
	High					14.00	13.80
LTE Band 17	Low					11.00	10.00
	Mid					12.00	10.00
	High					12.00	10.00
LTE Band 20	Low			12.00	17.10		
	Mid			12.00	17.60		
	High			12.00	17.40		
LTE Band 28	Low	16.00	9.80			24.00	5.05
	Mid	15.00	10.70			25.00	10.50
	High	15.00	12.00			25.00	11.90



## 2 Revision History

Rev.	Date	Changes / Comments
1	2015-08-15	Added LTE test