

Go/No Go Test - electrical -

Sony Xperia Ion



LT28i,LT28h



LT28at

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LT28i and LT28at all bands is ONLY implemented in CMWrun

LT28h. LT28at and LT28i no LTE is ONLY implemented in SERPII.

1 Go/No Go Testing

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 LT28at and LT28i all bands.

The following equipment has to be used:

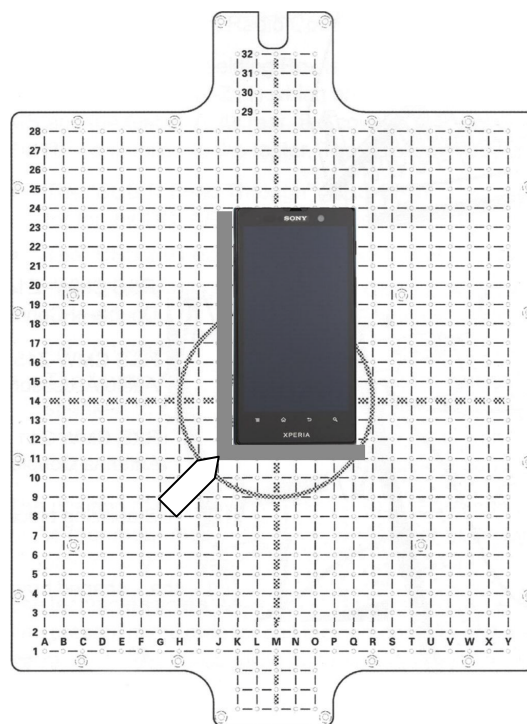
- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box CMW-Z11
 - Rohde & Schwartz RF Coupler
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/1700/1900/2100

LTE BAND-4/17

Put the grid positioning holder with its reference point in position **J11** and place the phone as shown in the adjacent picture.



1.2 Antenna Coupler LT28h. LT28i and LT28at no LTE.

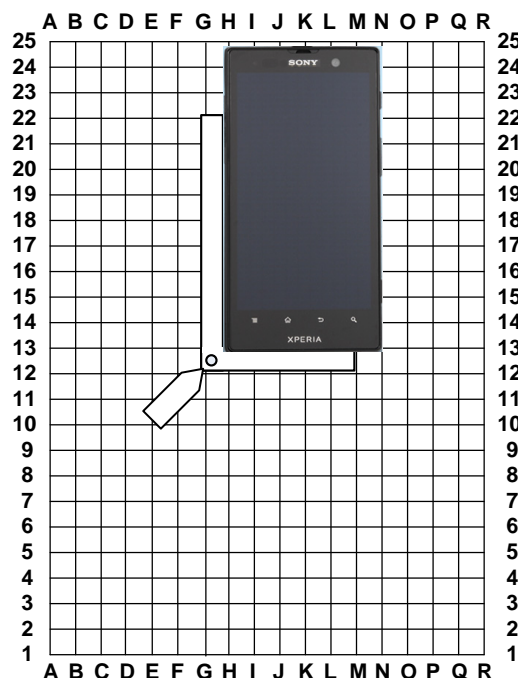
The following equipment has to be used:

- 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 **G12** 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 three versions, LT28at, LT28i and LT28h including the following bands:

LT28at:

GSM-850/900/1800/1900

WCDMA-850/1900/2100

LTE-Band-4/17

LT28i

GSM-850/900/1800/1900

WCDMA-850/1700/1900/2100

LTE-Band-4/17

LT28h

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

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 CMW-Z11

Band	Channel	Attenuation LT28i		Attenuation LT28at	
		Rx	Tx	Rx	Tx
GSM 850	Low	10	5.92	10	6.72
	Mid	12	6.73	12	6.73
	High	11	7.22	11	7.72
GSM 900	Low	10	8.84	10	8.84
	Mid	12	9.06	12	9.06
	High	11	9.98	11	9.98
GSM 1800	Low	14	18.24	14	17.54
	Mid	14	18.24	14	19.84
	High	16	14.48	16	14.48
GSM 1900	Low	21	14.52	21	14.52
	Mid	21	16.07	21	16.07
	High	21	17.33	21	18.83
WCDMA 850	Low	11	5.90	11	6.80
	Mid	12	6.80	12	6.80
	High	12	7.70	12	7.70
WCDMA 1700	Low	20	18.31		
	Mid	24	23.11		
	High	24	17.15		
WCDMA 1900	Low	10	13.75	10	13.75
	Mid	12	15.60	12	15.60
	High	10	17.55	10	17.55
WCDMA 2100	Low	20	17.93	20	17.93
	Mid	22	17.29	22	17.79
	High	22	17.22	22	17.22
LTE BAND 4	Low	19	20.54	19	19.34
	Mid	19	24.09	19	22.59
	High	18	18.95	18	19.75
LTE BAND 17	Low	13	7.12	13	7.12
	Mid	13	7.39	13	7.39
	High	13	6.87	13	7.67

1.3.2 Loss Values – Antenna Coupler CMU-Z11

Band	Channel	Attenuation LT28h		Attenuation LT28i		Attenuation LT28at	
		Rx	Tx	Rx	Tx	Rx	Tx
GSM 850	Low	6.00	10.76	4.00	9.13	6.00	9.13
	Mid	4.00	9.61	5.50	8.14	7.50	8.14
	High	6.00	8.65	5.00	7.65	5.00	7.65
GSM 900	Low	4.00	6.05	9.50	9.56	9.50	9.56
	Mid	4.00	7.66	7.00	11.92	6.00	10.92
	High	4.00	8.15	6.00	11.79	6.00	11.79
GSM 1800	Low	11.00	13.35	9.50	13.60	9.50	13.60
	Mid	11.00	12.23	11.00	11.62	11.00	10.62
	High	11.00	11.01	12.00	11.77	12.00	11.77
GSM 1900	Low	10.00	14.48	14.50	13.59	11.50	19.59
	Mid	10.00	13.36	13.00	12.95	10.00	14.95
	High	10.00	12.68	14.50	11.81	10.50	13.81
WCDMA 850	Low	7.00	8.99	5.50	9.06	5.50	9.06
	Mid	8.00	8.13	5.00	8.61	5.00	8.61
	High	7.00	7.01	5.00	7.27	5.00	7.27
WCDMA 900	Low	6.00	6.18				
	Mid	8.00	5.71				
	High	7.00	5.98				
WCDMA 1700	Low	12.50	13.17	11.50	13.06		
	Mid	12.00	12.14	11.00	11.61		
	High	14.00	10.98	11.00	10.27		
WCDMA 1900	Low	11.50	13.00	12.00	12.33	12.00	14.33
	Mid	14.00	13.44	13.50	13.00	13.50	14.00
	High	14.00	11.83	13.50	12.37	13.50	12.37
WCDMA 2100	Low	13.00	10.41	10.00	10.06	10.00	11.06
	Mid	12.00	12.51	10.50	11.60	10.50	12.60
	High	15.00	12.61	10.50	12.73	10.50	12.73

2 Revision History

Rev.	Date	Changes / Comments
1	2012-May-18	Initial release
2	2012-June-1	Adjust WCDMA Band2 Mid Channel loss value
3	2012-Aug-16	LT28h added .LT28i and LT28at no LTE added.