

## **RF TEST REPORT**

	Test item	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA						
	Model No.	Phone with Bluetooth, WLAN and NFC LG-D722v, LG-D722V, D722v, D722V, LGD722v, LGD722V, LG-D722, D722, LGD722						
	Order No.	DEMC1405-02062						
	Date of receipt	2014-05-29						
	Test duration	2014-05-30 ~ 2014-06-14						
	Date of issue	2014-07-04						
	Use of report	FCC Original Grant						
Applicant	: LG Electronics I	MobileComm U.S.A., Inc.						
	1000 Sylvan Av	nue, Englewood Cliffs NJ 07632						
Test laboratory	: DT&C Co., Ltd.							
	42, Yurim-ro, 15	4beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935						
	Test specification	: FCC Part 15.225						
	Test environment	: See appended test report						
	Test result	: 🛛 Pass 🗌 Fail						

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose. This test report shall not be reproduced except in full, without the written approval of DT&C Co., Ltd.

Reviewed by:

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General Manager Geunki Son

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Tested by:

Engineer JaeJin Lee

TRF-RF-203(03)140422

## **Test Report Version**

Test Report No.	Date	Description
DRTFCC1406-0814	Jun. 19. 2014	Initial issue
DRTFCC1406-0814(1)	Jul. 04. 2014	Revise the test Procedure Remove unnecessary data Add to antenna requirements

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### 1. Equipment information

### 1.1 Equipment description

FCC Equipment Class	Low Power Communications Device Transmitter(DXX)				
Equipment type	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC				
Equipment model name	LG-D722v				
Equipment add model name	LG-D722V, D722v, D722V, LGD722v, LGD722V, LG-D722, D722, LGD722				
Equipment serial no.	Identical prototype				
Frequency band	13.56MHz				
Modulation type	ASK				
Channel	1				
Power	Li-ion Battery: DC 3.8V AC-DC Adaptor: AC 120V 60Hz				
Antenna type	Loop Antenna				

### 1.2 Ancillary equipment

Equipment	Model No.	Serial No.	Manufacturer	Note
-			-	-
-	-	-	-	-

### 2. Information about test items

### 2.1 Test mode

Test mode1	Continuous transmitting mode
Test mode2	_

Note: For this test mode, a test program was supported by manufacturer.

### 2.2 Auxiliary equipment

Equipment	ent Model No. Serial No. Manufacturer		Manufacturer	Note
-	-	-	-	-
-	-	-	-	-

### 2.3 Tested frequency

	TX Frequency(MHz)	RX Frequency(MHz)		
Lowest Channel	13.56	13.56		
Middle Channel	-	-		
Highest Channel	-	-		

### 2.4 Tested environment

Temperature		23~ 25 °C
Relative humidity content	:	40 ~ 48 % R.H.
Details of power supply	:	DC 3.8V

### 2.5 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing  $\rightarrow$  None

### **3. ANTENNA REQUIREMENTS**

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

The antenna is attached to the battery cover, and antenna is coupled use the special tension. Therefore this E.U.T Complies with the requirement of §15.203

### 4. Test report

### 4.1 Summary of tests

FCC part section(s)	RSS section(s)	Parameter	Limit	Test condition	Status Note 1			
2.1049	RSS-Gen [ 4.6.1 ]	Occupied bandwidth	N/A		С			
15.225 (a)	RSS-210 [ A2.6 (a) ]	In-band emissions	15,848µV/m @ 30m 15.553 – 13.567 MHz		С			
15.225 (b)	RSS-210 [ A2.6 (b) ]	In-band emissions	334µV/m @ 30m 13.410 – 13.553 MHz 13.567 – 13.710 MHz	Radiated	с			
15.225 (c)	5.225 (c) RSS-210 [ A2.6 (c) ] In-band emissions		106µV/m @ 30m 13.110 – 13.410 MHz 13.710 – 14.010 MHz		с			
15.225 (d) 15.205 15.209	RSS-210 [ A2.6 (d) ] RSS-Gen [ 7.2.2 & 5 ]	Out-of band emissions	Emissions outside of the specified band (13.110-14.010 MHz) must meet the radiated limits detailed in 15.209		с			
15.225 (e)	RSS-210 [ A2.6 ]	Frequency stability	±0.01% of operating frequency	Conducted	С			
15.207	RSS-Gen [ 7.2.4 ]	AC conducted emissions	conducted emissions FCC Part 15.207		С			
15.203	-	Antenna requirements	FCC Part 15.203	-	С			
Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable								

The sample was tested according to the following specification: ANSI C-63.10-2009

### 4.2 Transmitter requirements

### 4.2.1 Occupied bandwidth

### - Procedure:

The 20dB Bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

#### - Measurement Data: Comply

🊺 Ag	ilent Spect		nalyzer - Swe									
<mark>LXI</mark>	tor Er	RF		DC DOO MHz		SEI	ISE:INT	Aval	ALIGN AUTO		PM Jun 14, 2014	Frequency
Cer		eq	15.500		PNO:Wide C FGain:Low	Trig: Free Atten: 6			ype. Log i m	TY		
	B/div	Re	f -10.00	dBm						ΔMkr2	441 kHz 0.38 dB	Auto Tune
Log -20.0 -30.0 -40.0				X	سمبر ک		1		2Δ3-		-39.83 dBm	Center Freq 13.560000 MHz
-50.0 -60.0 -70.0	~~~~	$\mathcal{A}$					Y				$\bigwedge$	Start Freq 13.060000 MHz
-80.0 -90.0 -100												Stop Freq 14.060000 MHz
#Re	s BW	10 k			VBW	/ 30 kHz			-	1.000 ms (		<b>CF Step</b> 100.000 kHz Man
MKR 1	MODE TR	C SCL		× 13.5	60 MHz	۲ <b>-19.83 d</b> l		NCTION	FUNCTION WIDTH	I FUNCTI	ON VALUE	
2 3 4 5	Δ <u>3</u> 1 F 1	f	<u>(</u> Δ)		441 kHz (∆ 38 MHz	40.02 dE	dB					Freq Offset 0 Hz
6 7 8 9												
10 11											-	
•						III					•	
MSG									STATU	JS		

- Minimum Standard: N/A

### 4.2.2 In-band emissions

### - Procedure:

The EUT was placed on a 0.8m high wooden table inside a 10m semi anechoic chamber. An antenna was placed at 3 m distance from the EUT Measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions. A loop antenna was used for this test item. And the loop antenna was rotated about vertical axis.

### - Measurement Data: Comply

Test Frequency Band [MHz]	Freq. [MHz]	EUT Posi.	Reading Level [dBuV]	T.F	Field Strength @3m [dBuV/m]	Field Strength @30m [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13.110 ~ 13.410	13.348	Y	20.50	19.04	39.54	-0.46	40.51	40.97
13.410 ~ 13.553	13.454	Y	22.50	19.04	41.54	1.54	50.47	48.93
13.553 ~ 13.567	13.561	Y	34.10	19.04	53.14	13.14	84.00	70.86
13.567 ~ 13.710	13.668	Y	21.70	19.04	40.74	0.74	50.47	49.73
13.710 ~ 14.010	13.773	Y	18.40	19.06	37.46	-2.54	40.51	43.05

Note 1. This test item was performed using a loop antenna.

**Note 2.** This test item was performed at 3m and the data were extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)2.

• Extrapolation Factor =  $20 \log_{10}(30/3)^2 = 40 dB$ 

Note 3. All data were recorded using a spectrum analyzer employing a peak detector.

If PK results were meet Quasi-peak limit, Quasi-peak measurements were omitted.

Note 4. Sample Calculation.

Margin = Limit – Field Strength @ 30m / Field Strength @ 30m = Field Strength @ 3m – 40dB Field Strength @ 3m = Reading + T.F / T.F = AF + CL – AG Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain

### - Minimum Standard: Part 15.225(a), (b), (c)& RSS-210 A2.6(a), (b), (c)

Frequency Band [MHz]	Limit			
	[uV/m]	[dBuV/m]		
13.553-13.567	15,848	84.00		
13.410-13.553 13.567-13.710	334	50.47		
13.110-13.410 13.710-14.010	106	40.51		

### 4.2.3 Out-of-band emissions

#### - Procedure:

The EUT was tested from 9kHz up to the 1GHz excluding the band 13.110-14.010MHz. All measurements were recorded with spectrum analyzer employing a peak detector for emissions below 30MHz. Above 30MHz a Quasi-peak detector was used. All out-of-band emissions must not exceed the limits §15.209. A loop antenna was used for searching for emissions below 30MHz.

#### - Measurement Data: Comply (refer to the next page)

• FCC Part 15.205 (a): Only spurious emissions are permitted in any of the frequency bands listed below:										
MHz	MHz	MHz	MHz	GHz	GHz					
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	3.6 ~ 4.4	14.47 ~ 14.5					
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	4.5 ~ 5.15	15.35 ~ 16.2					
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	5.35 ~ 5.46	17.7 ~ 21.4					
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~ 156.52525	1660 ~ 1710	7.25 ~ 7.75	22.01 ~ 23.12					
4.17725 ~ 4.17775	13.36 ~ 13.41	156.7 ~ 156.9	1718.8 ~ 1722.2	8.025 ~ 8.5	23.6 ~ 24.0					
4.20725 ~ 4.20775	16.42 ~ 16.423	162.0125 ~ 167.17	2200 ~ 2300	9.0 ~ 9.2	31.2 ~ 31.8					
6.215 ~ 6.218	16.69475 ~ 16.69525	167.72 ~ 173.2	2310 ~ 2390	9.3 ~ 9.5	36.43 ~ 36.5					
6.26775 ~ 6.26825	16.80425 ~ 16.80475	240 ~ 285	2483.5 ~ 2500	10.6 ~ 12.7	Above 38.6					
6.31175 ~ 6.31225	25.5 ~ 25.67	322 ~ 335.4	2655 ~ 2900	13.25 ~ 13.4						
8.291 ~ 8.294	37.5 ~ 38.25	399.90 ~ 410	3260 ~ 3267							
8.362 ~ 8.366	73 ~ 74.6	608 ~ 614	3332 ~ 3339							
8.37625 ~ 8.38675	74.8 ~ 75.2	960 ~ 1240	3345.8 ~ 3358							

### - Minimum Standard: Part 15. 205, 209, 225(d) & RSS-210 A2.6 (d), RSS-Gen 7.2.2, RSS-Gen 7.2.5

### • FCC Part 15.205(b):

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

#### • FCC Part 15.209(a):

Frequency [MHz]	Field Strength [uV/m]	Measurement Distance [Meters]
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100 **	3
88 ~ 216	150 **	3
216 ~ 960	200 **	3
Above 960	200	3

\*\* Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88MHz, 174-216MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

### • FCC Part 15.209(b):

In the emission table above, the tighter limit applies at the band edges.

### - Measurement Data:

Tested Frequency	:	13.56MHz
Measurement Distance	:	3 Meters

Frequency [MHz]	EUT Posi.	ANT Pol	Reading [dBuV]	T.F [dB/m]	Distance factor	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
0.538	Х	V	15.70	17.61	40.00	-6.69	33.00	39.69
1.566	Z	V	10.20	17.74	40.00	-12.06	23.70	35.76
30.100	Y	V	17.10	-3.87	N/A	13.23	40.00	26.77
32.716	Y	н	17.00	-5.23	N/A	11.77	40.00	28.23
69.825	Y	Н	17.30	-15.05	N/A	2.25	40.00	37.75
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

**Note 1.** All measurements were recorded using a spectrum analyzer employing a peak detector for blew 30MHz and a Quasi-peak detector for above 30MHz.

**Note 2.** Both Vertical and Horizontal polarities of the receiver antenna were evaluated with the worst case emissions being reported. For 30MHz below the loop antenna was rotated about vertical axis.

Note 3. No other spurious and harmonic emissions were reported greater than listed emissions above table.

Note 4. Sample calculation

Margin = Limit – Field Strength Field Strength = Reading + T.F – Distance factor T.F = AF + CL – AG Distance factor = 20log(Measurement distance / The measured distance)<sup>2</sup> Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain

### 4.2.3 Out-of-band emissions

#### - Procedure:

The EUT was tested from 9kHz up to the 1GHz excluding the band 13.110-14.010MHz. All measurements were recorded with spectrum analyzer employing a peak detector for emissions below 30MHz. Above 30MHz a Quasi-peak detector was used. All out-of-band emissions must not exceed the limits §15.209. A loop antenna was used for searching for emissions below 30MHz.

#### - Measurement Data: Comply (refer to the next page)

• FCC Part 15.205 (a): Only spurious emissions are permitted in any of the frequency bands listed below:										
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0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	4.5 ~ 5.15	15.35 ~ 16.2					
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	5.35 ~ 5.46	17.7 ~ 21.4					
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~ 156.52525	1660 ~ 1710	7.25 ~ 7.75	22.01 ~ 23.12					
4.17725 ~ 4.17775	13.36 ~ 13.41	156.7 ~ 156.9	1718.8 ~ 1722.2	8.025 ~ 8.5	23.6 ~ 24.0					
4.20725 ~ 4.20775	16.42 ~ 16.423	162.0125 ~ 167.17	2200 ~ 2300	9.0 ~ 9.2	31.2 ~ 31.8					
6.215 ~ 6.218	16.69475 ~ 16.69525	167.72 ~ 173.2	2310 ~ 2390	9.3 ~ 9.5	36.43 ~ 36.5					
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6.31175 ~ 6.31225	25.5 ~ 25.67	322 ~ 335.4	2655 ~ 2900	13.25 ~ 13.4						
8.291 ~ 8.294	37.5 ~ 38.25	399.90 ~ 410	3260 ~ 3267							
8.362 ~ 8.366	73 ~ 74.6	608 ~ 614	3332 ~ 3339							
8.37625 ~ 8.38675	74.8 ~ 75.2	960 ~ 1240	3345.8 ~ 3358							

### - Minimum Standard: Part 15. 205, 209, 225(d) & RSS-210 A2.6 (d), RSS-Gen 7.2.2, RSS-Gen 7.2.5

### • FCC Part 15.205(b):

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#### • FCC Part 15.209(a):

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0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100 **	3
88 ~ 216	150 **	3
216 ~ 960	200 **	3
Above 960	200	3

\*\* Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88MHz, 174-216MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

### • FCC Part 15.209(b):

In the emission table above, the tighter limit applies at the band edges.

### 4.2.4 Frequency Stability

### - Procedure:

Part 15.225 requires that devices operating in the 13.553 – 13.567 MHz shall maintain the carrier frequency within 0.01% of the operating frequency over the temperature variation of -20 degrees to + 50 degrees C at normal supply voltage.

### - Measurement Data: Comply

Operating Frequency	:	13,560,000Hz
---------------------	---	--------------

VOLTAGE (%)	POWER (V <sub>DC</sub> )	TEMP (℃)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100%	3.800	+25(ref)	13,560,460	460	0.003392
100%		-20	13,560,356	356	0.002625
100%		-10	13,560,390	390	0.002876
100%		0	13,560,412	412	0.003038
100%		+10	13,560,423	423	0.003119
100%		+20	13,560,460	460	0.003392
100%		+30	13,560,432	432	0.003186
100%		+40	13,560,380	380	0.002802
100%		+50	13,560,372	372	0.002743
85%	3.230	+25	13,560,458	458	0.003377
115%	4.370	+25	13,560,461	461	0.003400

### - Minimum Standard: Part 15. 225(e) & RSS-210 A2.6

The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency.

### 4.2.5 AC Line Conducted Emissions

### - Procedure:

The conducted emissions are measured in the shielded room with a spectrum analyzer in peak hold. While the measurement, EUT had its hopping function disabled at the middle channels in line with Section 15.21(m). Emissions closest to the limit are measured in the quasi-peak and average detector mode with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation and Exerciser operation. The highest emissions relative to the limit are listed.

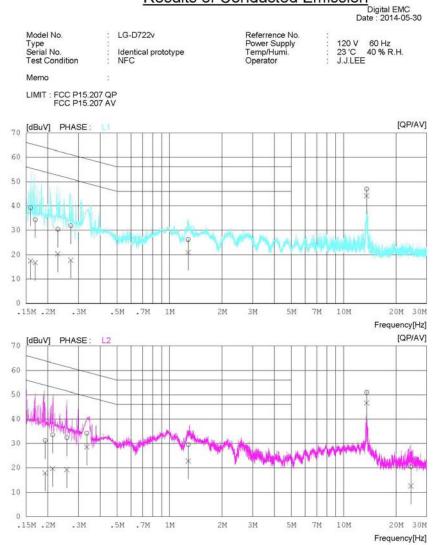
- Measurement Data: Comply (refer to the next page)

#### - Minimum Standard: FCC Part 15.207(a) & RSS-Gen 7.2.4

Frequency Range	Conducted Limit (dBuV)				
(MHz)	Quasi-Peak	Average			
0.15 ~ 0.5	66 to 56 *	56 to 46 *			
0.5 ~ 5	56	46			
5 ~ 30	60	50			

\* Decreases with the logarithm of the frequency

### **Measurement Data**



Results of Conducted Emission

### **Measurement Data**

## Results of Conducted Emission

											e : 2014-05-30	
Type Seria	/lodel No. 「ype Serial No. 「est Condition		al No. : Identical prototype				F	Referrence Power Sup Temp/Hun Operator	pply	: 2		60 Hz 10 % R.H.
Memo		:										
LIMI	FCC P15											
NO	FREQ	READ OP	AV	C.FACTOR	RES QP		LIM	AV	MA: OP	RGIN AV	PHASE	
	[MHz]	[dBuV]		[dB]	[dBuV]			[dBuV]		] [dBuV	']	
1	0.15930	28.9	7.1	10.3		17.4	65.5	55.5	26.3		L1	
2	0.16927	24.0	6.3	10.4	34.4	16.7	65.0	55.0	30.6		L1	
3	0.22815	20.1	10.0	10.3	30.4	20.3	62.5	52.5	32.1	32.2		
4	0.27078	21.6	7.4	10.3	31.9	17.7	61.1	51.1	29.2		L1	
5	1.27840	16.0	10.7	10.2	26.2	20.9	56.0	46.0	29.8		L1	
6	13.55880	36.2	33.5	10.7	46.9	44.2	60.0	50.0	13.1	5.8		
7	0.19292	20.8	7.5	10.4	31.2	17.9	63.9	53.9	32.7	36.0	L2	
8	0.21302	23.2	9.4	10.4	33.6	19.8	63.1	53.1	29.5		L2	
9	0.25722	22.1	9.0	10.3	32.4	19.3	61.5	51.5	29.1	32.2	L2	
10	0.33465	23.9	18.2	10.3	34.2	28.5	59.3	49.3	25.1	20.8	L2	
11	1.28120	19.4	12.6	10.2	29.6	22.8	56.0	46.0	26.4	23.2	L2	
			35.9	10.7	50.9	46.6	60.0	50.0	9.1	3.4	L2	
12 13	13.56000 24.35100	40.2	1.6	11.0	20.4	12.6	60.0	50.0	39.6		L2	

# **APPENDIX** TEST EQUIPMENT FOR TESTS

Туре	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
PXA Signal Analyzer	Agilent	N9030A	13/10/29	14/10/29	MY53310140
MXA Signal Analyzer	Agilent	N9020A	13/09/24	14/09/24	MY50200867
Digital Multimeter	H.P	34401A	14/02/27	15/02/27	3146A13475
Dynamic Measurement DC Source	Agilent	66332A	13/09/24	14/09/24	US37473627
Thermohygrometer	BODYCOM	BJ5478	14/03/03	15/03/03	1209
Vector Signal Generator	R&S	SMJ100A	14/01/07	15/01/07	100148
Temp &Humi Test Chamber	SJ Science	TEMI2500	13/10/22	14/10/22	SJ-TH-S50-130930
LOOP Antenna	Schwarzbeck	FMZB1513	14/04/29	16/04/29	1513-128
BILOG ANTENNA	SCHAFFNER	CBL6112B	12/11/06	14/11/06	2737
Amplifier (22dB)	H.P	8447E	14/01/07	15/01/07	2945A02865
EMI TEST RECEIVER	R&S	ESU	14/01/07	15/01/07	100014
EMI TEST RECEIVER	R&S	ESR	14/02/07	15/02/07	101767
CVCF	EM TEST	NETWAVE 60- 400	14/05/26	15/05/26	P1311115470
LISN	SCHWARZBECK	NNLK8121	13/08/12	14/08/12	NNLK8121-580
PULSE LIMITER	R&S	ESH3-Z2	14/01/08	15/01/08	101334