

		Farran Technology Ltd., Unit 1 Airport East Technology Park. Farmers Cross, Co.Cork. Ireland.		
Certificate of Calibration Certificate No: FCC 10047				
Model#: FS-Z60		S/N: 100107		Cal Freq: 40-60GHz
Calibration Date : 12-03-2010 As shipped Condition: On completion of testing, measurement points within specification. Comments: Unit calibrated to spec, results on file. Measurement Uncertainty: +/-1.5dB. Customer : Rohde & Schwarz. Location of Calibration: Farran Technology Certified By: John Coughlan Date 12/03/10				
Signature 		Date 12/03/2010		
Calibration Procedure No: STP 27				
Calibration Equipment used:				
Description:	Model No:	S/N:	Certificate No.	Cal Due
Agilent Spectrum Analyzer	8563E	3728A07479	1-2082094855-20	July 2011
Agilent Power Meter	E4418A	GB39512672	1-2082094855-25	July 2011
Agilent Power Sensor	8481A	US37293022	1-2082094855-27	July 2011
Agilent Power Sensor	V8486A	MY444420202	1-2185779265-1	Aug 2011
Agilent Power Sensor	Q8486A	3318A01897	1-2184688936-1	Aug 2011
Agilent Synthesized Generator	E8247B	MY43320714	1-2185666333-1	Aug 2011
Agilent Synthesized Generator	83712B	US37100716	1-2082094855-21	July 2011

Conversion Loss Data for Harmonic Mixer FS-Z60 (40 .. 60 GHz)

(Order No. 4503049645/72EN/04R)

Revision 1.30

Ser. No.

100107

Conversion loss data valid for following operating conditions:

IF	741,4 MHz (valid for 404,4 MHz and 729,9 MHz too)
Order of Harmonic	4
LO frequency range	10 to 15GHz +15.5dBm
LO level	nominal
Bias	0 mA

Frequency / GHz	Conversion Loss / dB	Frequency / GHz	Conversion Loss / dB
40.00	-21.15	50.20	-18.05
40.41	-21.71	50.61	-17.90
40.82	-21.72	51.02	-17.58
41.22	-22.81	51.43	-17.68
41.63	-22.27	51.84	-17.23
42.04	-22.48	52.24	-17.80
42.45	-23.35	52.65	-17.43
42.86	-22.55	53.06	-17.84
43.26	-23.50	53.47	-17.79
43.67	-22.22	53.88	-17.95
44.08	-23.39	54.28	-18.02
44.49	-21.28	54.69	-17.97
44.90	-22.00	55.10	-17.95
45.30	-21.49	55.51	-17.94
45.71	-21.00	55.92	-18.00
46.12	-20.27	56.32	-18.06
46.53	-19.70	56.73	-17.72
46.94	-19.93	57.14	-17.34
47.34	-19.42	57.55	-17.17
47.76	-19.21	57.96	-17.15
48.16	-19.86	58.37	-17.15
48.57	-18.97	58.78	-17.49
48.98	-19.68	59.18	-17.67
49.39	-17.56	59.59	-18.11
49.80	-17.76	60.00	-18.03