

G20034A1
18/07/01
ISSUE 2

PRODUCTION TEST SPECIFICATION



**G20034A1
G3 E-PUMA 850MHz SINGLE FEED MHA
GROUP A TESTS**

This document should be used to carry out a Group A test in accordance to Works Instruction WI-106. The attached test record sheets are completed for each unit and form the certificate of compliance.

This Document	Identity Issue Date	PTS_G20034A1 2 18/07/01
Product Code	G20034A1	G3 E-PUMA 850 MHz Single Feed MHA
Tested against Product Specification	Identity Issue Date	01DS0004 1 19/01/01

HISTORY

DATE	ISSUE	AUTHOR	ISSUE NOTE	CHANGE
15/01/01	01	S. Cox	ECO 1807	Original Issue
18/07/01	02	S. Cox	ECO 2213	Change Spec Limit 86dBm to 84dBm

Approved By -Engineering S. Cox	Approved By – Quality A. Simmonds	Approved By – Production J. Tomlinson
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G3 E-PUMA 850MHz SINGLE FEED MHA TEST RECORD SHEET 1 of 1

Product code **G20034A1** MHA serial no.
Wks. Order No. LNA serial No.

TEST FREQUENCIES

Rx Frequency Band	824.0 – 849.0 MHz
Tx Frequency Band	869.0 – 894.0 MHz

It is certified that all tests have been carried out with the following results and are given thus.

RF MEASUREMENTS (To WI-106) IMPORTANT – SET SUPPLY VOLTAGE TO 12V

Para	Description	Spec. limit	Result (worst case)
	Tests completed at ambient temperature	22°C ± 2°C	
6.1	Return loss at ANT port measured from 823-850 MHz	≥21 dB	
6.1	Return loss at BTS port measured from 823-850 MHz	≥21 dB	
6.2	Return loss at ANT port measured from 868-895 MHz	≥21 dB	
6.2	Return loss at BTS port measured from 868-895 MHz	≥21 dB	
6.7	System gain (across Rx band)	min. 31.4 dB max. 32.6 dB	
6.7	System gain ripple	≤0.9 dB	
6.3	Insertion loss across Tx band from BTS to ANT port	≤0.85 dB	
6.11	System Noise figure 824 MHz to 849 MHz	≤2.1 dB	
6.12	Input 1 dB compression point	≥-7.0 dBm	
6.6	Current consumption with supply at +12V	≥400 mA ≤500 mA	

Test Equipment Nos.

Test Engineer Date

PASSIVE INTERMODULATION IN RX INFORMATION BAND (To WI-07-002)

Test Carried out with LNA powered 'ON'

Tx Carrier 1 869 MHz	Tx Carrier 2 894 MHz	
	PIM Order	Frequency
Measured product	3	844.0 MHz

	Spec. limit	Result
Carriers applied to BTS port		
Reflected PIM product at BTS port	-84 dBm	

Test Engineer Date