

**MOTOROLA**

Motorola Communications Israel Ltd.

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DATE MAY 31 1999

FAX MESSAGE

REF.

ATT: CARL MESHEBERG FROM: OVADIA GROSSMAN
RON ZANCOLA

FAX NO.: 516-738-5520 DEPT: IDC

COMPANY: SYMBOL

DIRECT PHONE: 972-3-565 8720

COUNTRY: USA

DIRECT FAX: 972-3-565 8356

CC: OZ GOREN

ASTERIX III - ANTENNA

These are the latest radiation patterns of the first samples of production antennas. An optimization has been performed, and the antenna exhibits better performance than the latest patterns you received on APRIL 11, 1999

Summary / Conformance to the original symbol spec
Antenna in Asterix,

main position, V-pol:
(coverage in degrees for
3 pattern cuts)

-2dBi has 170° coverage

-6dBi has 320° coverage

Asterix in dispenser:

-2dBi has 120° coverage

-6dBi has 190° coverage

Asterix in dispenser,
with metal ground
plane behind disp.

-6dBi has 150° coverage

I intend to run a full performance test with the final
production antenna (produced by factory) and final plastics
of the Asterix.

Regards: Ovadia

Wiltron

S7247A

MODEL:
DEVICE:

DATE: 05/02/99 09:52
OPERATOR:

START: 2.300000 GHz
STOP: 2.800000 GHz
STEP: 0.000750 GHz

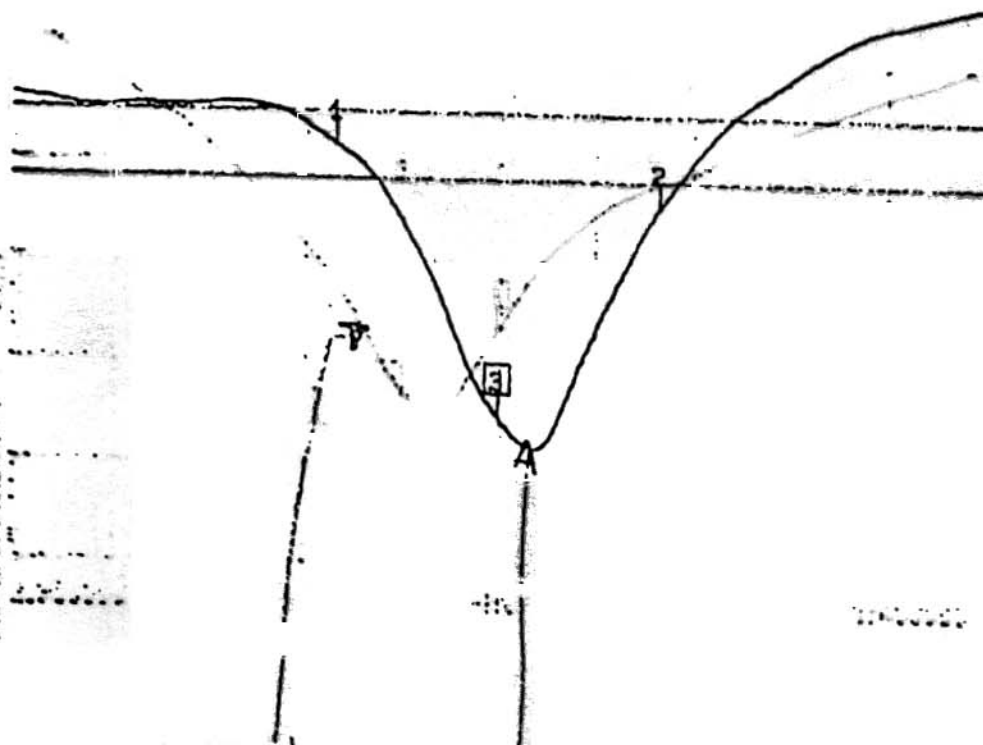
GATE START:
GATE STOP:
GATE:
WINDOW:

ERROR CORR: REFL PORT1
AVERAGING: 1 PT
IF BANDWIDTH: 1 KHz

CH 1 - S11
REFERENCE PLANE
0.0000 m

Phase: 1
-18.600 dB

1 2.399750 GHz
-8.501 dB
2 2.800250 GHz
-10.291 dB



Production

Prototype

Wilton

87247A

MODEL:
DEVICE:

DATE: 05/02/99 08:02
OPERATOR:

START: 2.300000 GHz
STOP: 2.600000 GHz
STEP: 0.000750 GHz

GATE START:
GATE STOP:
GATE:
WINDOW:

ERROR CORR: REFL PORT1
AVERAGING: 1 PT
IF BANDWIDTH: 1 KHz

ALL FORWARD REFL. LOSS

1.000000

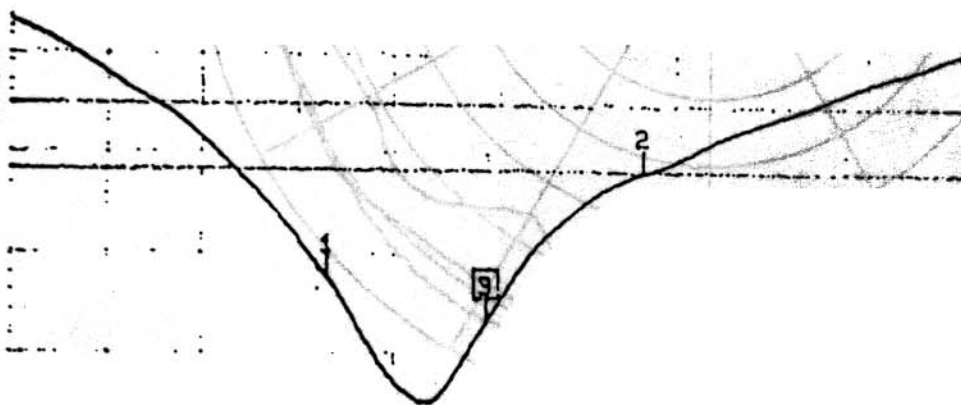
0.000000

0.000000

CH 1 - S11
REFERENCE PLANE
0.0000 m

Phase: 0.0000
-14.006 dB

0.0000
0.0000



1 2.399750 GHz
-12.783 dB
2 2.500250 GHz
-9.557 dB

0.0000
0.0000