



## RFID Patch Antenna specification

17 October 2005

TRL Compliance Services Ltd  
Long Green  
Forthampton  
Gloucester  
GL19 4QH  
UK

RE: RFID Patch Antenna Specification

FCC ID: TFT-RM100

To Whom It May Concern:

The RM100 UHF RFID module can be used in a fixed or handheld configuration. In the fixed configuration, two circular patch antennas are used (1 transmit, 1 receive). In the handheld configuration only one circulator and one 100mm x 100m circular patch antenna is used.

The PATCH-A0003-07 is used in the fixed configuration and PATCH-A0001-01 is used in the handheld configuration.

### PACTCH-A0003-07 Specification

#### **Electrical:**

Gain (over band)	6dBi circularly polarized gain
Frequency	860 - 930 MHz
VSWR	<1.4:1
Axial ratio	less than 1dB
Power handling	10 W
Polarization	Circular
Impedance	50 ohm

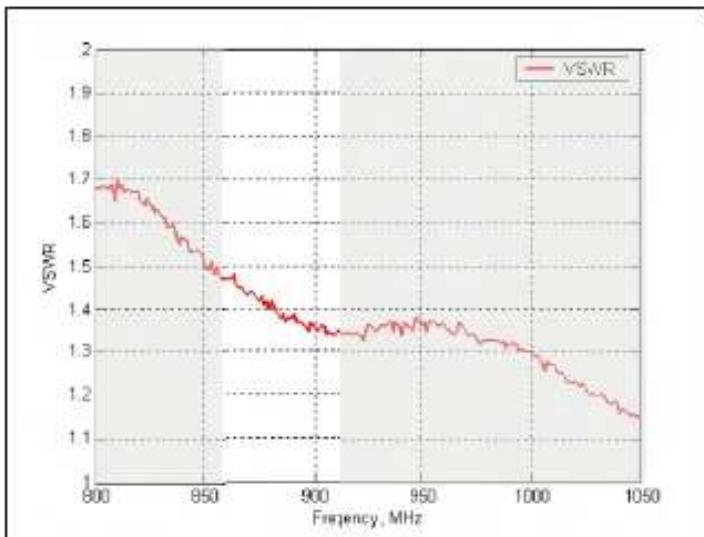
#### **Mechanical:**

Dimensions	245 mm x 235 mm x 40 mm
Weight	470 g

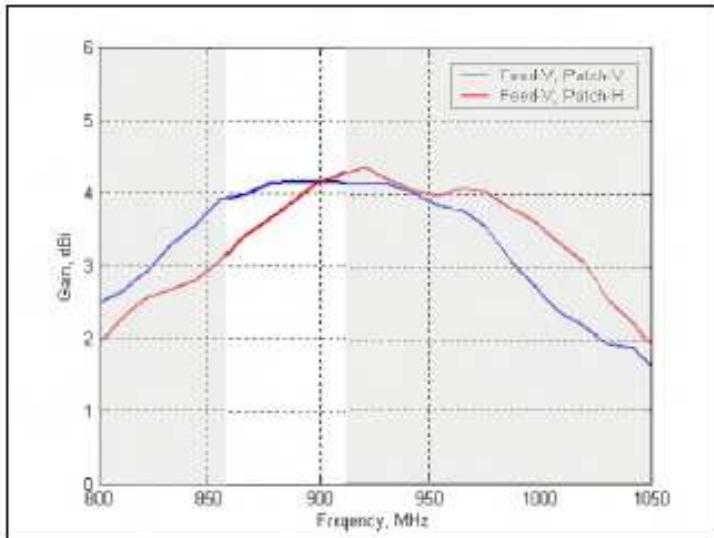
Copyright ©2005 MaxID Limited, All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior permission of MaxID.

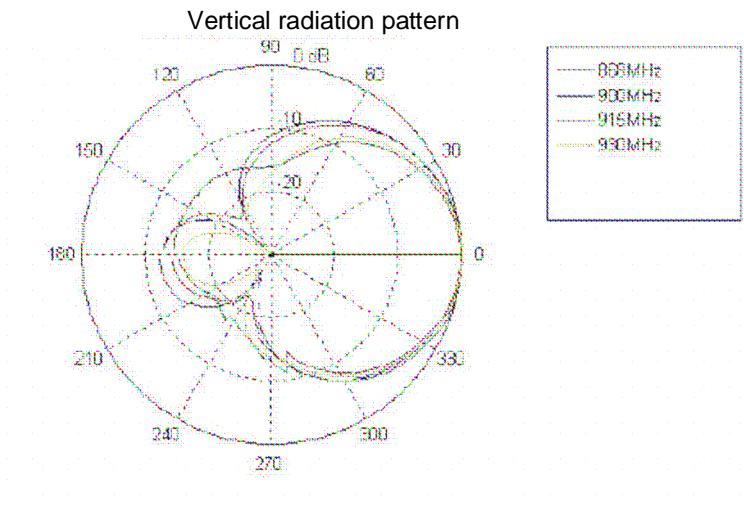
MaxID Limited, Quattro House, Lyon Way, Frimley, Surrey GU16 7ER, United Kingdom  
Phone: +44 (0) 1276 80 4498, Fax: +44 (0) 1276 80 4499, URL: [www.maxidcorp.com](http://www.maxidcorp.com)

### VSWR



### GAIN





### PATCH-A0001-01 Specification

#### **Electrical:**

Gain (over band)	2 dBi circularly polarized gain
Frequency	902 - 928 MHz
VSWR	<1.6:1
Power handling	5 W
Polarization	Circular
Impedance	50 ohm

#### **Mechanical:**

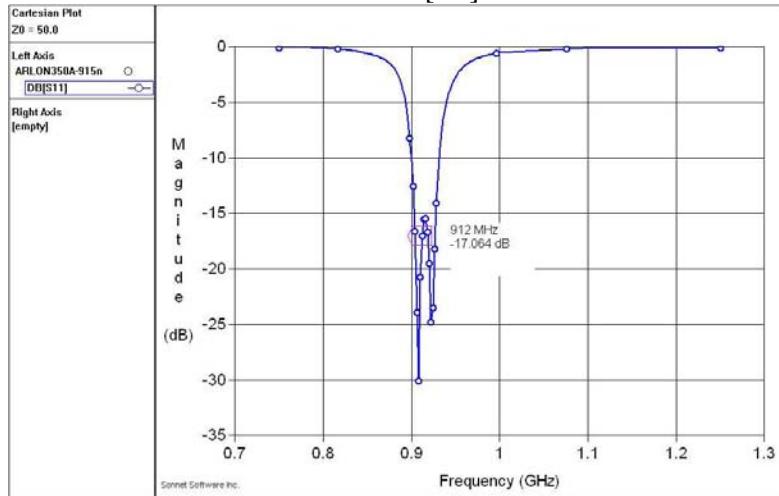
Dimensions	100 mm x 100 mm x 6 mm
Weight	72 g

Copyright ©2005 MaxID Limited, All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior permission of MaxID.

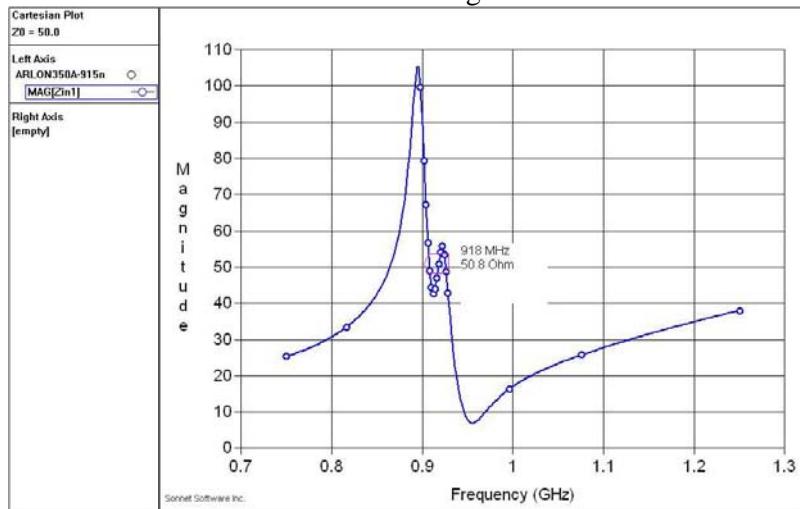
MaxID Limited, Quattro House, Lyon Way, Frimley, Surrey GU16 7ER, United Kingdom  
Phone: +44 (0) 1276 80 4498, Fax: +44 (0) 1276 80 4499, URL: [www.maxidcorp.com](http://www.maxidcorp.com)



S11 [dB]



Z-in magnitude

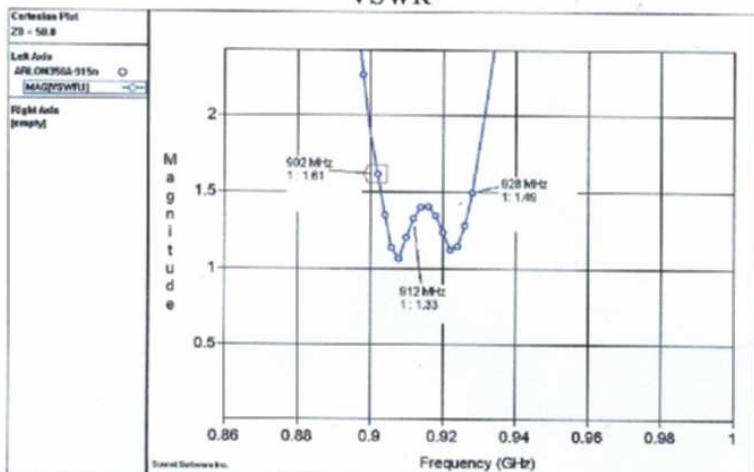


Copyright ©2005 MaxID Limited, All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior permission of MaxID.

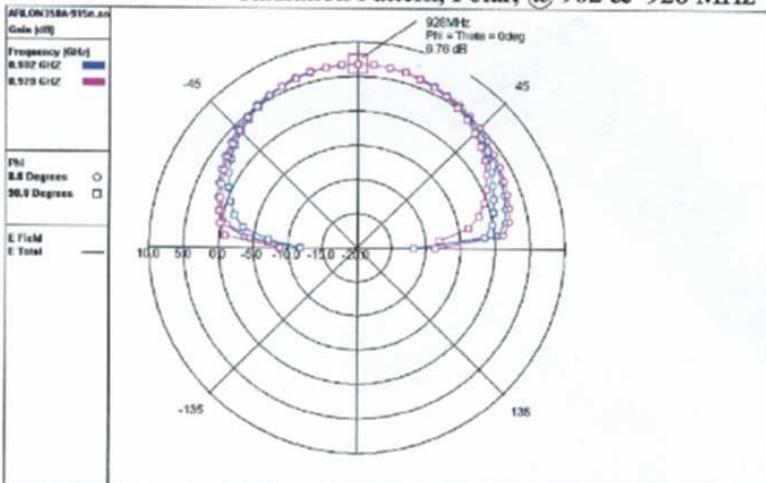
MaxID Limited, Quattro House, Lyon Way, Frimley, Surrey GU16 7ER, United Kingdom  
Phone: +44 (0) 1276 80 4498, Fax: +44 (0) 1276 80 4499, URL: [www.maxidcorp.com](http://www.maxidcorp.com)



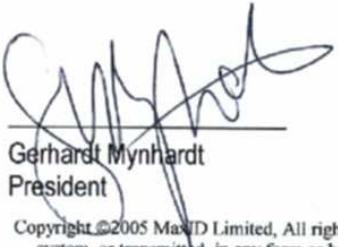
### VSWR



### Radiation Pattern, Polar, @ 902 & 928 MHz



Yours faithfully  
MaxID

  
Gerhard Mynhardt  
President

Copyright ©2005 MaxID Limited. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior permission of MaxID.

MaxID Limited, Quattro House, Lyon Way, Frimley, Surrey GU16 7ER, United Kingdom  
Phone: +44 (0) 1276 80 4498, Fax: +44 (0) 1276 80 4499, URL: [www.maxidcorp.com](http://www.maxidcorp.com)