

ANTENNA DESCRIPTION

Applicant:	IDENTEC SOLUTIONS AG
Model / HVIN:	IDS1014 & IDS1015
Product name / PMN:	iMark EC & iMark IC

1.1 RF antenna 1 (902-928MHz)

Description:	FPC antenna MOLEX 105262, 1.4dBi @ 915MHz Electrical <table border="1"> <tr> <td>Band#1 F_End (MHz)</td><td>870</td></tr> <tr> <td>Band#1 F_Start (MHz)</td><td>863</td></tr> <tr> <td>Band#2 F_End (MHz)</td><td>928</td></tr> <tr> <td>Band#2 F_Start (MHz)</td><td>902</td></tr> <tr> <td>Electrical Connectivity</td><td>Cable</td></tr> <tr> <td>Peak Gain (dBi)</td><td>0.4 @ 868 MHz, 1.4 @ 915 MHz</td></tr> <tr> <td>Return Loss - S11 (dB)</td><td>< -6</td></tr> <tr> <td>Total Efficiency</td><td>> -1.8dB @ 915 MHz, > -3.0dB @ 868 MHz</td></tr> </table>	Band#1 F_End (MHz)	870	Band#1 F_Start (MHz)	863	Band#2 F_End (MHz)	928	Band#2 F_Start (MHz)	902	Electrical Connectivity	Cable	Peak Gain (dBi)	0.4 @ 868 MHz, 1.4 @ 915 MHz	Return Loss - S11 (dB)	< -6	Total Efficiency	> -1.8dB @ 915 MHz, > -3.0dB @ 868 MHz
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1.3 RF antenna (LF @ 125kHz, external coil antenna, IDS1014)

Description:	LF 125kHz (coil antenna)
Photo:	iMark EC (External LF loop antenna) Maximum usable size is 1.85mx0.8m (2 turns) 

1.4 RF antenna (LF @ 125kHz, internal coil antenna, IDS1015)

Description:	LF 125kHz (coil antenna)	
Photo:	iMark IC (Internal LF loop antenna) PCB antenna, 8 turns, 59mmx84mm 	