

## AS/0670 Module User Manual

### Introduction

The AS0670 Module is a RFID transceiver used to identify accessories attached to Diomed Lasers. It must only be fitted by Diomed Ltd in Diomed Lasers, and in accordance with this guide.

### General Requirements

Power Supply:	5V dc +/- 0.25V, 50mA The mains input to the power supply must be filtered and comply with the requirements of EN60601.1.2
Screening:	A ground plane and de-coupling capacitors on the PCB ensures that no additional screening is required around the module.  There should be no enclosure screening directly in front of the antenna coil or the field will not radiate outside of the Laser.
Frequency	The operating frequency must be checked after installation in the Diomed Laser and if necessary fine tuned to 125kHz +/- 1kHz using the trimmer capacitor on the module.
Antenna:	This is a fixed coil soldered to the PCB and must be installed in the vertical plane to ensure compliance.
Signal Cable	Maximum length: 0.7m Cable type: 6 way ribbon cable 7/36 AWG, 1.27mm pitch. Connector type: MMT 6way male (e.g. Farnell part no. 149-068)
Labelling	The outside of the Laser must be labelled in accordance with FCC and Industry Canada rules.
Operator Manual	The Laser's Operator Manual must contain the EMC warnings in accordance with FCC and Industry Canada rules.

### Signal Requirements

Name	Function	Vin high	Vin low	Vout high	Vout low
CFE	Data In	3.0min	0.8Vmax	-	-
Output	Data Out	-	-	2.4V min	0.5Vmax
/OE	Output Enable	2.4V min	0.5Vmax	-	-

### Connections

Connector (J1)

Pin	Name	Function
1	P5V	+5V
2	0V	0V
3	0V	0V
4	CFE	Data In
5	Output	Data Out
6	/OE	Output Enable