

# T2000 SFL

TSO/ATSO

T  
R  
A  
N  
S  
P  
O  
N  
D  
E  
R

## Introduction

The Microair Avionics T2000SFL Transponder is a mode 3A/C aircraft transponder designed to operate in an ATCRBS environment.

The T2000SFL has been designed to meet RTCA/DO-144 requirements, and has been tested to DO-160D for environmental and EMC requirements.

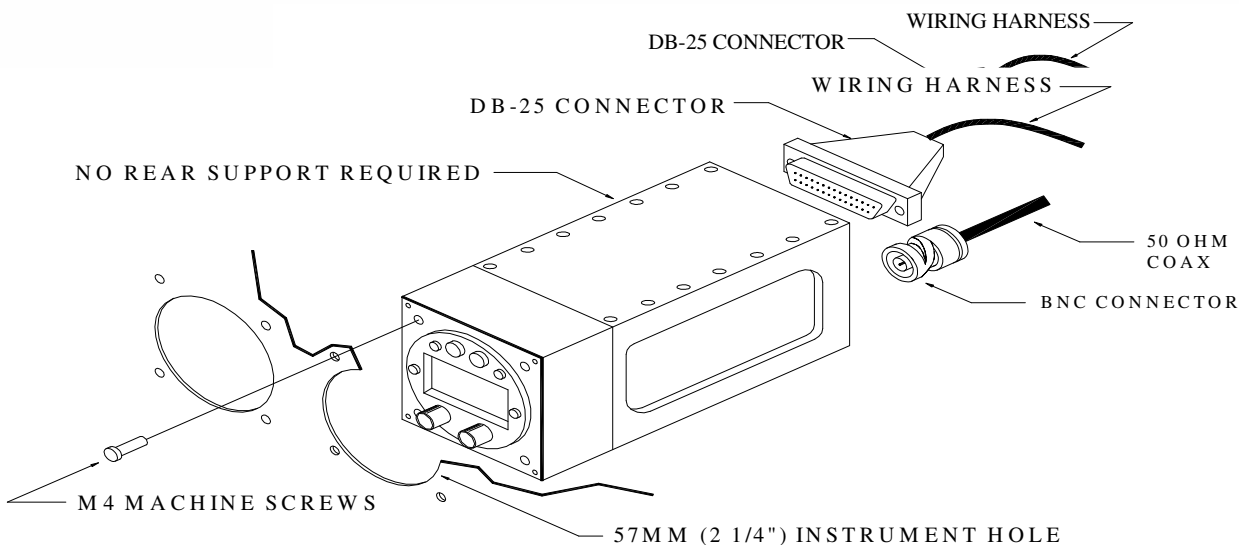
The T2000SFL software has been developed and approved under RTCA/DO-178B requirements.



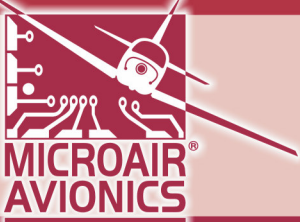
## Features

The T2000SFL is a small lightweight transponder with low power requirements. The T2000SFL is compatible with any C88a compliant altitude encoder, and offers the following features:

- Mode 3 A response (4096 codes)
- Mode C altitude response
- SPI indent response
- Encoder Altitude displayed
- Altitude Alert (HI / LO)
- Voltage alter (OV / UV)
- Security coding of serial number
- Option to power encoder only in mode C operation.



MICROAIR T2000 SFL  
PANEL INSTALLATION



# T2000 SFL

TSO/ATSO



TRANSPONDER

<b>Compliance</b>	ATSO TSO JTSO	1C74c C74c IC74c	Class 1A Class 1A Class 1A
<b>RTCA</b>	DO-144 DO-160D DO-178B Level C	Transponder MOPS Environmental Software	Level C
<b>Transmitter</b>	Frequency Output Pulse Width Rise Time Fall Time SWE Tolerance	1090MHz 200W 450nS 80nS 130nS <5:1	+/-0.5MHz Nominal (+/-3W) +/-25nS
<b>Receiver (1030MHz)</b>	Dynamic Range  Frequency Pass band	0dBm -71dBm 1030MHz 1028-1035MHz	Maximum MTL Centre Frequency <6dB
<b>Physical Size</b>	Length Width and Height Weight Installed Size - Exposed Face	160mm 61mm 600g 57mm Diameter	(6.3 in) (2.4 In) (21.1oz) (2.25 In)
<b>Operational Modes</b>	Mode 3A Mode C SPI Encoder Power Alt Display QNH	4095 codes -1,000 to + 62,000 Ident All - Mode A and C Units Units	Pilot selectable Gillham input 18 seconds Mode C only Feet/Metres MB/HG
<b>Power</b>	Input Voltage Input Current	10V min 150 – 200 mA 100 – 150 mA	33V Max @ 14V @ 28V
<b>Temperature</b>	Cold	-20 up to +55degrees C	-4 up to 131degrees F
<b>Altitude</b>	Encoded Range	1,000 feet min	+62,000 feet max