

TDFM-9300 TRANSCEIVER

P/N 111267-x

ACCEPTANCE TEST DATA SHEET

DOCUMENT No. 136568
REVISION: J
DATE OF ISSUE: APRIL 30, 2024

TESTED IN ACCORDANCE WITH DOCUMENT NUMBER: 136567 Rev. ____	ACCEPT	<input type="checkbox"/>	SERIAL NUMBER	
	REJECT	<input type="checkbox"/>		
TEST TECHNICIAN:			DATE:	
QUALITY CONTROL:			DATE:	



Technisonic Industries **Limited**

240 Traders Boulevard, Mississauga, Ontario L4Z 1W7
Tel: (905) 890-2113 Fax: (905) 890-5338
www.til.ca

This document contains designs and other information which are the property of Technisonic Industries Ltd. This document may not in whole or in part, be duplicated or disclosed or used for manufacture of the part disclosed herein, without the prior written permission of Technisonic Industries Ltd.

TDFM-9300 TEST DATA SHEET

Power up Tests:

Software Version:	MN:	FP:
Model Number displayed at start up:		
Current Draw during normal display:		mA
Heatsink Fan is turning:		Y/N

Modules 1 - 4 Function Tests:

TESTS		Module 1	Module 2	Module 3	Module 4	
Maximum RXA Level:						Vrms
Audio Distortion at Volume 35:						%
RX SINAD at -116 dBm:						dB
RX Indicator:						Y/N
Channel Selector works:						Y/N
Dimmer Control works:						Y/N
Soft Keys / Home Key works:						Y/N
TX Indicator:						Y/N
Transmit Frequency:						MHz
DTMF / Number Keys work:						Y/N
Normal Deviation:						±kHz
Maximum Deviation:						±kHz
Transmit Distortion:						%
Transmit Power:	LO					W
Transmit Power:	HI					W

Module 5 Transmit Function Tests:

TX TESTS (Circle Module Type>)	Module 5 Type:			
	T1	T4	T5	T6
Output Power:	Low		Hi	
30 MHz			W	Low:0.8-1.2 Hi:8.0-10.0
40 MHz			W	
50 MHz			W	
118 MHz			W	Low:0.8-1.2 Hi:3.5-4.5
129 MHz			W	
138 MHz			W	
225 MHz			W	
314 MHz			W	
400 MHz			W	
TX Freq.:			MHz	+/- 300 Hz
TX Indicator			Y/N	
DTMF Keys work			Y/N	
Nominal Deviation:			+/- KHz	2.4 - 5 KHz
Max Deviation:				
30 MHz			KHz	< 5 KHz W
40 MHz			KHz	
50 MHz			KHz	
Modulation Depth:				
118 MHz			%	79-90%
129 MHz			%	
138 MHz			%	
225 MHz			%	
314 MHz			%	
400 MHz			%	
CTCSS Frequency ok:			Y/N	
CTCSS Deviation:			Hz	450-850 Hz
DPL Code correct:			Y/N	
DPL Deviation:			Hz	450-850 Hz
Side Tone level:			Vrms	0.78-1.3V
TX Audio Distortion FM:			%	<5%
TX Audio Distortion AM:			%	
TX Hum & Noise FM:			dB	
TX Hum & Noise AM:			dB	

Module 5 Receive Function Tests:

RX TESTS (Circle Module Type>)	Module 5 Type:			
	T1	T4 T5 T6		
RX Sensitivity:				
30 MHz		uV	<0.4uV	
40 MHz		uV		
50 MHz		uV		
118 MHz		uV	<2uV	
129 MHz		uV		
138 MHz		uV		
225 MHz		uV	<5uV	
314 MHz		uV		
400 MHz		uV		
Max RXA Level FM:		Vrms	>4.5V	
Max RXA Level AM:		Vrms	>4.5V	
RX Audio Distortion FM:		%	<5%	
RX Audio Distortion AM:		%	<5%	
RX Indicator:		Y/N		
RX Audio Signal to Noise FM:		dB		
RX Audio Signal to Noise AM:		dB		

Antenna Tuner Output (VLO Only):

Antenna Tuner Port Truth Table (- = OFF)						
Band Segment (MHz)	40 MHz	20 MHz	10 MHz	8 MHz	4 MHz	PASS Y/N
30-33.9975	-	ON	ON	-	-	
34-37.9975	-	ON	ON	-	ON	
38-39.9975	-	ON	ON	ON	-	
40-43.9975	ON	-	-	-	-	
44-47.9975	ON	-	-	-	ON	
48-50	ON	-	-	ON	-	

Outputs correspond to the above table:		Y/N
Tune Indicator LED lit on jig when keyed:		Y/N
TUNE Indicator on radio displayed when keyed:		Y/N

MCP Mod 14 Tests:

B7/B8 External PTT works:		Y/N
B7 Mic Audio works:		Y/N
B8 Mic Audio works:		Y/N
B7 Sidetone Audio works		Y/N
B8 Sidetone Audio works		Y/N
B7 RX Audio works:		Y/N
B8 RX Audio works:		Y/N
Remote RXD/TXD works:		Y/N

Final Checks:

Combined Audio Ports work:		Y/N
Keyloading works:		Y/N
FPP works:		Y/N
Check to see if Backlight works:		Y/N
RC-9000 Data Port works:		Y/N
Radio turns off and is drawing no current:		Y/N
Radio looks good - no scratches, etc.:		Y/N
Checked for loose hardware inside:		Y/N