

# TDFM-9100 TRANSCEIVER

P/N 121270-x

## ACCEPTANCE TEST DATA SHEET

DOCUMENT No. 146607  
REVISION: F  
DATE OF ISSUE: 25 MARCH 2024

TESTED IN ACCORDANCE WITH DOCUMENT NUMBER: 146606 Rev. ____	ACCEPT	<input type="checkbox"/>	SERIAL NUMBER	
	REJECT	<input type="checkbox"/>		
TEST TECHNICIAN:			DATE:	
QUALITY CONTROL:			DATE:	



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## TDFM-9100 TEST DATA SHEET

### Power up Tests:

Software Version:		
Model Number displayed at start up:		
Current Draw during normal display:		mA

### Modules 1 & 2 Function Tests:

TESTS	Module 1	Module 2	
Maximum RX Audio Level:			Vrms
Audio Distortion at Volume 16:			%
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 3 Transmit Function Tests:

TX TESTS					
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 3 Receive Function Tests:**

RX TESTS			
RX Sensitivity:			
30 MHz		uV	<0.4uV
40 MHz		uV	
50 MHz		uV	
118 MHz		uV	<2.0uV
129 MHz		uV	
138 MHz		uV	
225 MHz		uV	
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	

**MCP Mod 14 Tests:**

B4/B5 External PTT Works:		Y/N
B4 Mic Audio Works:		Y/N
B5 Mic Audio Works:		Y/N
B4 Sidetone Audio works:		Y/N
B5 Sidetone Audio works:		Y/N
B4 RX Audio Works:		Y/N
B5 RX Audio Works:		Y/N
B4 RX Led Works:		Y/N
B5 RX Led Works:		Y/N
Remote S200 RXD/TXD works:		Y/N

**Final Checks:**

Combined Audio Port works:		Y/N
Keyloading works:		Y/N
FPP works:		Y/N
Check to see if Backlight works:		Y/N
RC-9100 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