



Technical Data

Data Transmitter Modules

VHF/UHF Band Exciter and Transmitter

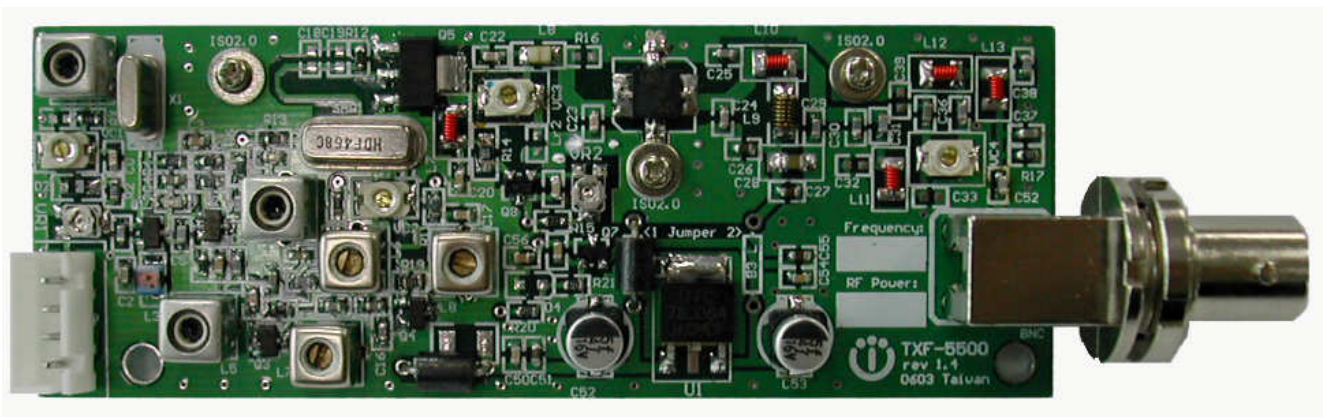
Item No:

TXF-5500V2 for 130-174MHz 2W

TXF-5500U2 for 400-520MHz 2W

TXF-5500V5 for 130-174MHz 5W

TXF-5500U5 for 400-520MHz 5W



Main Function

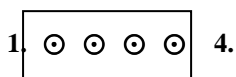
- FM/FSK Modulation
- 1 channel crystal controller
- High power output up to 5W
- Wide operational frequency range
- Any 2 level data formats
- RF Power adjustable form 1W to 5W..
- Data rate up to 6.4Kbps.
- Wide operation temperature from -20°C -- +70°C
- Small Size: 95mm X 35mm X17mm
- BNC jack on board
- SMA jack with cable for option

-Specification-

Description	TXF-5500V2	TXF-5500U2	TXF-5500V5	TXF-5500U5
Frequency Range	130-174MHz		400-520MHz	
Frequency stability	10 ppm Typ. (5ppm or 2.5 ppm for option) at 25°C .			
Crystal type	UM-1/49U	UM-1/UM-5	UM-1/49U	UM-1/UM-5
Channel spacing	12.5Khz or 25Khz.			
Data Rate	From 300bps up to 6.4Kbps. (deviation 4.5K).			
Modulation	Direct FM/FSK.			
Deviation	Typ 4.5K Max 5KHz.(Adjustable).			
Spurious and Harmonics	-45dBm.			
Harmonic distortion	<2.5% maximum at 1200 bps.			
RF Power output (Adjustable)	1-2 Watt	1-2 Watt	1-5 Watt	1-5 Watt
Duty Cycle at 25°C by 12V	75% at 2 W	70% at 2W	60% at 5 W	55% at 5 W
FM Noise	>50dB 4.5K deviation		>50dB 4.5K deviation	
Antenna Impedance	50Ω			
Transmitter attack time	<8mS for within 6K bps operation speed			
RF Output Jack	Standard. BNC Female on Board Option. SMA Female + 110mm RG174A/U cable			
Power Supply	DC 12V. (10V-13.8V).			
Temperature	-20°C — +70°C			
Current Drain (Max)	400mA	450mA	900mA	1000mA
Module Size	95mm X 35mm X 17mm			
Weight. (with BNC Jack)	35 grams.	35 grams.	52 grams	52 grams

I/O Connector

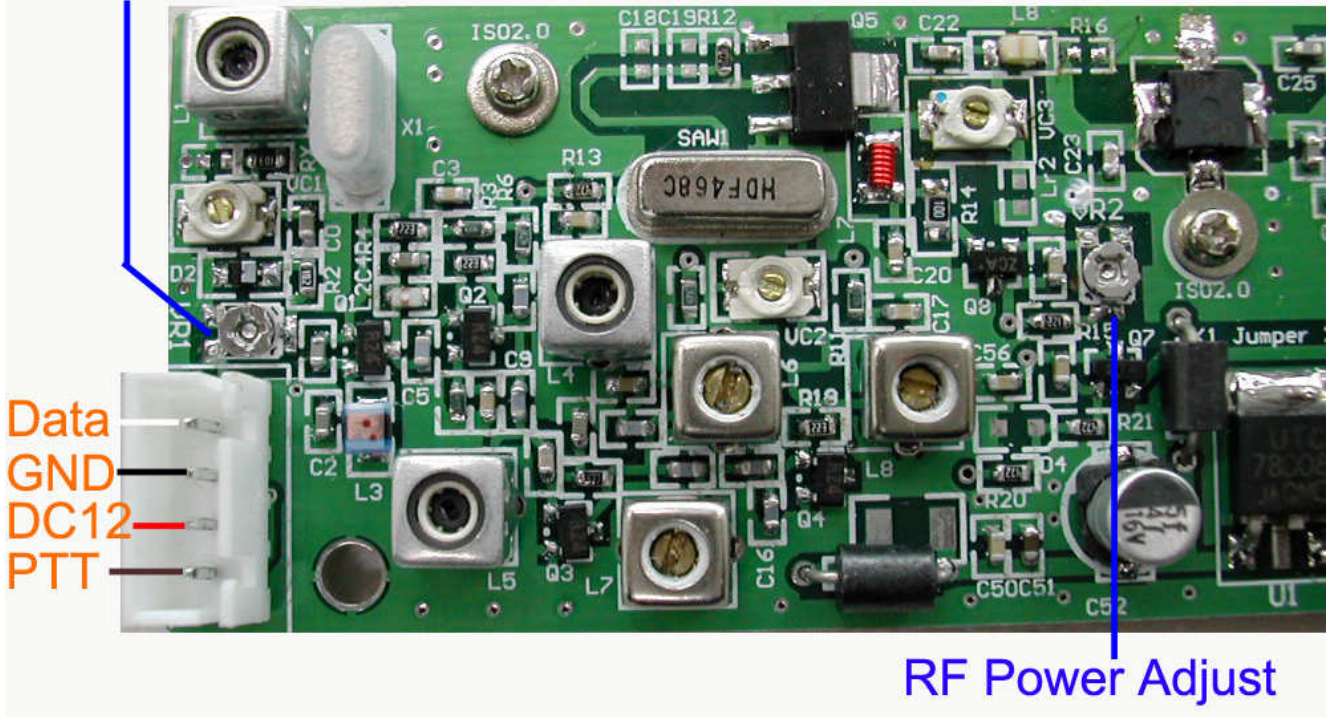
2.54 mm Pin Header 4Pin



- 1. Data Input
- 2. GND
- 3. V+ 12V
- 4. PTT (low for active)

Test Point and Adjustment

Modulation Adjust



J1 Main I/O

Pin 1 data input (must check the data phase to meet receivers)

Pin 2 GND

Pin 3 V+ DC 12V

Pin 4 PTT (Low for TX active)

VR1 for FM modulation adjustment

VR2 for RF power adjustment

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