SPECIFICATIONS		
Frequency Specifications	Value	Units
Frequency range	20-160	MHz
Frequency resolution (1)	0.1	Hz
Frequency stability	±2	ppm/deg C
Frequency preload time (2)	<8	μs
Frequency toggle time (3)	<80	ns
Amplitude Specifications		
RF output power, nominal for all channels on	3.2	Watt
RF output power, per channel	0.4	Watt
Modulation bandwidth (4)	>2	MHz
Dynamic range (5)	>35	dBc
Intermodulation (6)	>41	dB
Spurious	>45	dBc
Signal to noise ratio (7)	>75	dB
Interfaces		
RF output impedance	50	Ohms
Amplitude modulation input level	0-10	Volts
FSK modulation input level	3.3	Volts
Blanking input	3.3	Volts
Digital controls	ASC II	
Sensor input	±3.3	Volts
Power input, from DC supply	24@2A	Volts

## General Features

8 channels, combined as composite output.

On-board composite output power measurement. Independent linear amplitude modulation on each channel.

Common blanking signal for all channels.

Independent frequency shift modulation on each channel.

Robust command set.

Built in Network Protocols (i.e. Point to Point Protocol PPP, Link Control Protocol LCP, Password Authentication Protocol PAP, Internet Control Message Protocol, etc.)

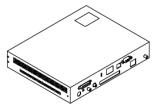
Control Voltage Levels: RS232.

## Comments:

- 1. Actually 0.0931 Hz, closest approximation to set frequency will be chosen. 2. Typically 1-8 µs, each frequency requires 32 bits, plus a starting RAM address.
- 3. Direct switch mode to one of three preset frequency.
- 4. Measured at -3 dB point, DC coupled.
- 5. 20-160 MHz.
- 6. 2 tone test, 100 MHz + 105 MHz, each of 125 mW output
- 7. 1 MHz measurement bandwidth , 125 mW reference tone.
- 8. Reference Outline Drawing 97-03926-14-15.

Code: 160T2-8SAR-24-3.2R

## **OUTLINE DRAWING**



## **Document**

09/16/13

**Control** 

Abbreviation N/C RXD

TXD

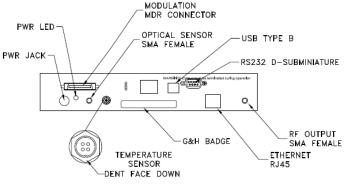
DTR

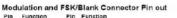
GND N/C

RTS

CTS

N/C





PIN	Function	Pin	Function	RS232 DB9 Connector Pin-out			
1	VCC24	21	VCC24	K323	2 DB9 Connector Fin-out		
2	VOC24	22	GND				
3	GRD	23	FSK1	Pin 1	Function Abbr		
4	GND	24	FSK1		11001		
5	GND	25	FSK2				
6	GND	26	FSK3	1	Not Used		
7	GND	27	FSK4	2	Receive Data		
8	GND	28	FSK5	_	20000110 20000		
9	GND	29	FSK6	3	Transmit Data		
10	GND	30	FSK7	4	Data Terminal Ready (+12V)		
11	GND	31	BLANK				
12	GND	32	GRD	5	Ground		
13	MOD 0	33	MOD 0+	6	Not Used		
14	MOD 1-	34	MOD 1+	-	Decreate Cond		
15	MOD 2-	35	MOD 2+	1	Request to Send		
16	MOD 3-	36	MOD 3+	8	Clear to Send		
17	MOD 4-	37	MOD 4+	9	Not Used		
18	MOD 5-	38	MOD 5+	9	Not Used		
19	MOD 6-	39	MOD 6+				
20	MOD 7-	40	MOD 7+				

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	M.Phung 8/23/2013	Sooch & Housego			
MATERIAL:	СНК		AODS Synth DDS 8 CH RS232			
FINISH:	APP		G&H ANALOG PLL=400MHz			
	APP		PART NUMBER: 97-03926-14	REV:	SHEET 1 OF 1	