

AOM Driver 97-02925-32 (20-160MHz, 0.4W)

(AODS 20160 STD, RoHS)

General Features

- On-board output power measurement.
- Linear amplitude modulation, blanking, frequency shift keying and RS232 in common connector.
- 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.

Specifications

Part code	160T1-1SNR-12-0.4J
Frequency specifications	
Frequency range	20-160MHz
Frequency resolution (1)	0.1Hz
Frequency stability	+/-2 ppm/deg C
Frequency preload time (2)	<10 us
Frequency toggle time (3)	<20ns
Amplitude Specifications	
RF output power (4)	0.4W
RF output gain adjust (5)	30dB
Modulation bandwidth (6)	>2MHz
Dynamic range (7)	>40dB
Intermodulation (8)	>40dB
Spurious	>30dBc
Signal to noise ratio (9)	>90dB
Interfaces	
RF output impedance	50 Ohms
Amplitude modulation input level	0-10V
FSK modulation input level	3.3V
Blanking input level	3.3V
Digital controls	ASCII
Sensor input	+/-3.3V
Power input, from DC supply	12V@1A
Dimension	165x132x25mm

Remarks:

1. Actually 0.0931 Hz, closest approximation to set frequency will be chosen.
2. Typically 1-10 μ s, each frequency requires 32 bits, plus a starting RAM address.
3. 3 independently pre loaded preset frequencies
4. At maximum output gain adjustment.
5. Linear in dB at constant signal to noise ratio.
6. Measured at -3 dB point, DC coupled.
7. 20-160 MHz, from 1 dB compression point to minimum achievable output.
8. 2 tone test, 100 MHz + 105 MHz, each of 125 mW output
9. 1 MHz measurement bandwidth , 125 mW reference tone.

Host Interface Connector					
Pin	Direction	Description	Pin	Direction	Description
1	-	VCC12	21	-	VCC12
2	-	VCC12	22	-	GND
3	-	GND	23	-	GND
4	Bidirectional Digital 3.3V	ONE_WIRE	24	-	GND
5	Output RS232 or Digital 3.3V	Host TxD	25	Input RS232 or digital 3.3V	Host RxD
6	Output RS232 or Digital 3.3V	Host RTS	26	Input RS232 or digital 3.3V	Host CTS
7	-	GND	27	-	GND
8	Bidirectional Digital 3.3V	I2CSDA	28	Bidirectional Digital 3.3V	I2CSCL
9	Input Digital 3.3V	RESET#	29	-	GND
10	Input LVDS	BLANK_N	30	Input LVDS	BLANK_P
11	-	GND	31	-	GND
12	Input LVDS	FSK_N	32	Input LVDS	FSK_P
13	-	No Connection	33	-	No Connection
14	-	No Connection	34	-	No Connection
15	Input Analog -5V to +5V	ANALOG_N	35	Input Analog -5V to +5V	ANALOG_P
16	-	No Connection	36	-	No Connection
17	-	No Connection	37	-	No Connection
18	-	No Connection	38	-	No Connection
19	Input LVDS	DIN_N	39	Input LVDS	DIN_P
20	Input LVDS	CLK_N	40	Input LVDS	CLK_P

