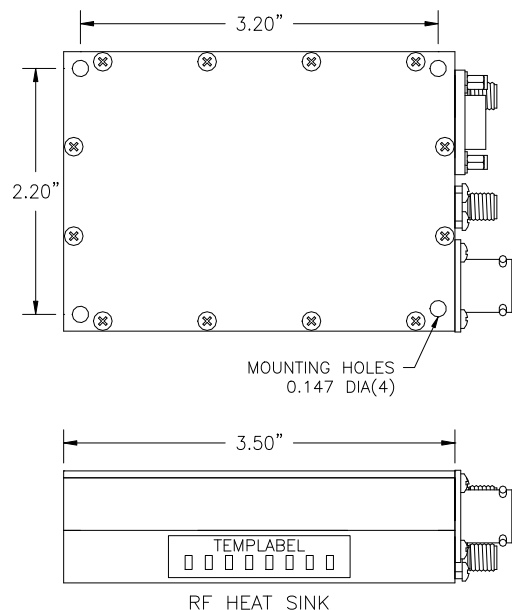
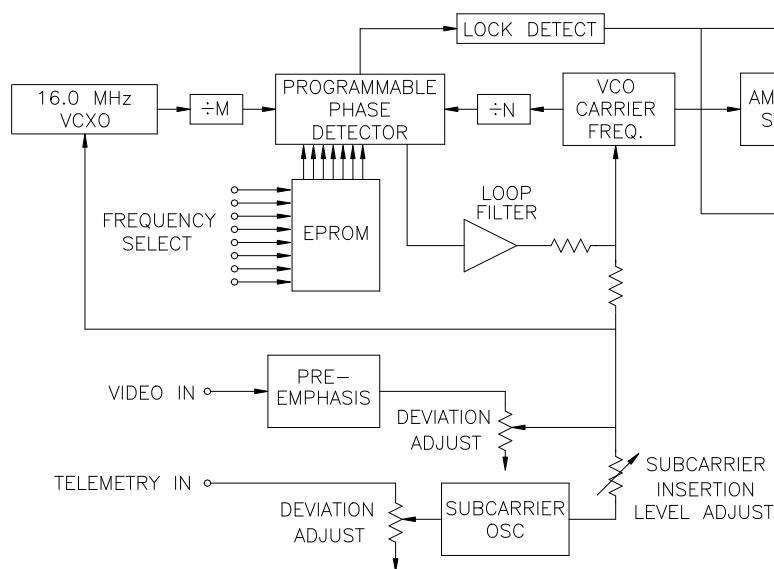


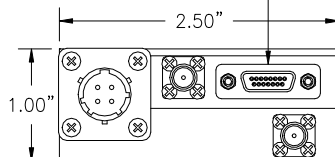


J2—RF OUT
SMA FEMALE

J3—VIDEO IN
SMA FEMALE

J1—POWER INPUT
'A' +28 VDC
'B' TELEMETRY IN
'C' GROUND
'D' GROUND
#PT02H-8-4P

J4—FREQUENCY SELECT
MDM-15P
PIN # 1: BCD 800
2: BCD 400
3: BCD 200
4: BCD 100
5: BCD 80
6: BCD 40
7: BCD 20
8: BCD 10
9: BCD 8
10: BCD 4
11: BCD 2
12: BCD 1
13: N/C
14: GND
15: GND



Protected by One or More of the following Patents:
US: 5,097,230, 5,311,152, 5,426,466, 6,404,292, 6,411,237, 6,417,738, 6,650,180, 6,683,499,
6,690,238, 6,747,517, 6,771,133, 6,900,696, 6,922,106, 7,190,229, 7,936,218, and 8,188,794.
Canadian: 2,033,861, 2,033,878, 2,080,013, 2,111,486, 2,235,091, 2,299,133, 2,306,977,
2,308,209, 2,313,132, 2,374,784, 2,374,794, 2,420,710, and 2,432,778.
Other US and Canadian Patents Pending.

RF OUTPUT

CARRIER FREQUENCY: 4400.0 to 4999.0 MHz in 1.0 MHz Steps
FREQUENCY SELECTION: Via MDM-15P Connector
FREQUENCY CODING: See Frequency Programming Chart 060
CARRIER STABILITY: Within $\pm 0.002\%$ over -20°C to $+70^{\circ}\text{C}$
POWER: 10 Watts Minimum
VSWR: 1.5:1 Maximum
IMPEDANCE: 50 Ohms Nominal
LOADING: Normal Operation into any Load VSWR and Phase Angle
OPEN/SHORT PROTECTION: Internal Isolator
HARMONIC & SPURIOUS LEVEL: -25 dBm Maximum

VIDEO MODULATION INPUT

FREQUENCY RESPONSE: DC to 4.5 MHz ± 1.5 dB; DC to 6.0 MHz ± 3.0 dB
PRE-EMPHASIS: Specify
PEAK DEVIATION: 8 MHz Pk-Pk
DEVIATION SENSITIVITY: Factory Set to 8 MHz Pk-Pk/1V Pk-Pk at Crossover
HARMONIC DISTORTION: 2% Maximum
INCIDENTAL AM: 5% Maximum
INCIDENTAL FM: 10 KHz Maximum
INPUT IMPEDANCE: 75 Ohms, Shunted by 30pF Maximum

SUBCARRIER & S/C MODULATION INPUT

SUBCARRIER FREQUENCY: 4.83, 5.2, 5.8, 6.2, 6.8, 7.5, or 8.5 MHz (Specify)
SUBCARRIER STABILITY: Within $\pm 0.5\%$ Maximum over -20°C to $+70^{\circ}\text{C}$
FREQUENCY RESPONSE: DC to 150 KHz
PEAK DEVIATION: 300 KHz Pk-Pk
DEVIATION SENSITIVITY: Adjustable up to ± 150 KHz/ ± 2.5 VDC
DEVIATION NON-LINEARITY: $\pm 3\%$ Maximum; 5 Hz - 150 KHz Rate to ± 150 KHz Deviation
HARMONIC DISTORTION: 5% Maximum from 10 Hz to 10 KHz
INSERTION LEVEL: Adjustable up to -20 dBc Maximum
INPUT IMPEDANCE: 10 KOhms Minimum

POWER REQUIREMENTS

INPUT VOLTAGE: $+28 \pm 4$ VDC: Reverse Polarity Protected
INPUT CURRENT: 2.0 Amps Maximum

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE: Operating: -20°C to $+70^{\circ}\text{C}$; Storage: -54°C to $+125^{\circ}\text{C}$
VIBRATION: 14 G's, Random, Standard Haystack, 20 Hz to 2 KHz, 3 Axes
SHOCK: $1/2$ Sine, 100 G's Pk, 11 ms, 3 Axes
ACCELERATION: 100 G's, 3 Axes
ALTITUDE: Unlimited
HUMIDITY: To 95% at any Temperature forming Frost or Condensation

PHYSICAL CHARACTERISTICS

DIMENSIONS: Per Outline Drawing
WEIGHT: 12 oz. Maximum

ISSUE DATE	12 06 17	 EMHISER RESEARCH, INC. 2705 OLD HIGHWAY 40 WEST TEL: 775-345-2705 P.O.BOX 189 VERDI, NEVADA FAX: 775-345-2484 89439-0189 U.S.A. EMAIL: INFO@EMHISER.COM	
DWN	L3		
APVD DATE	VIDEO TRANSMITTER/SC/P-E, 10 WATTS		
APVD	CHANNELIZED, DC COUPLED 4400.0 TO 4999.0 MHZ		
CAGE CODE IDENT NO.	60666		MODEL NO. EVTC-09G1D103-05

