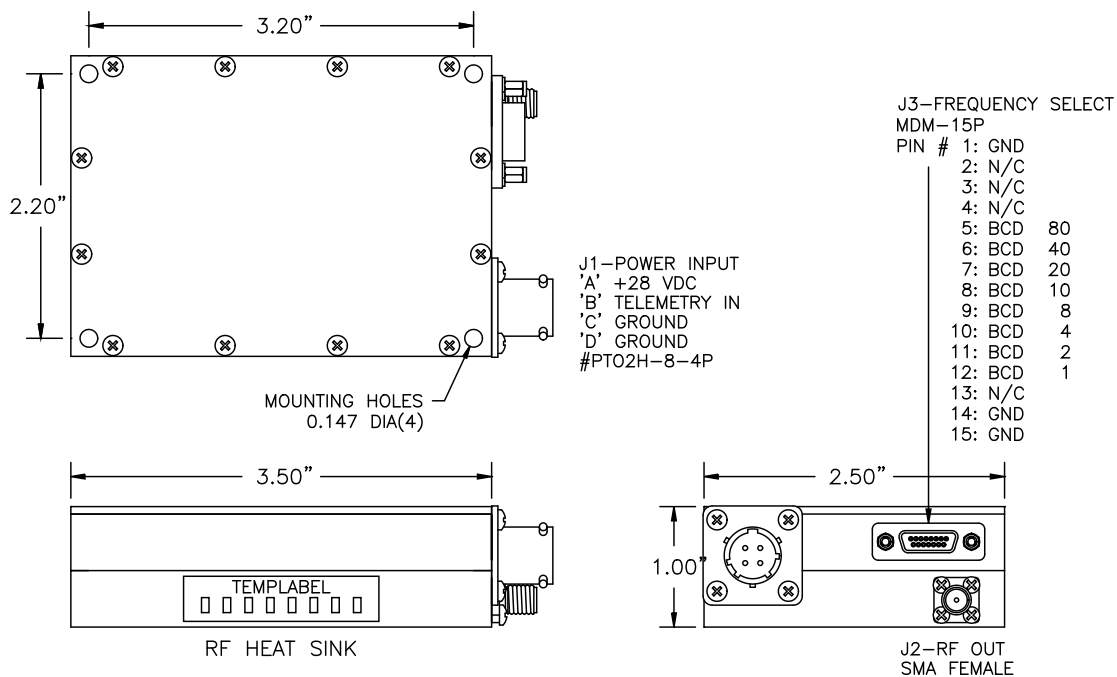
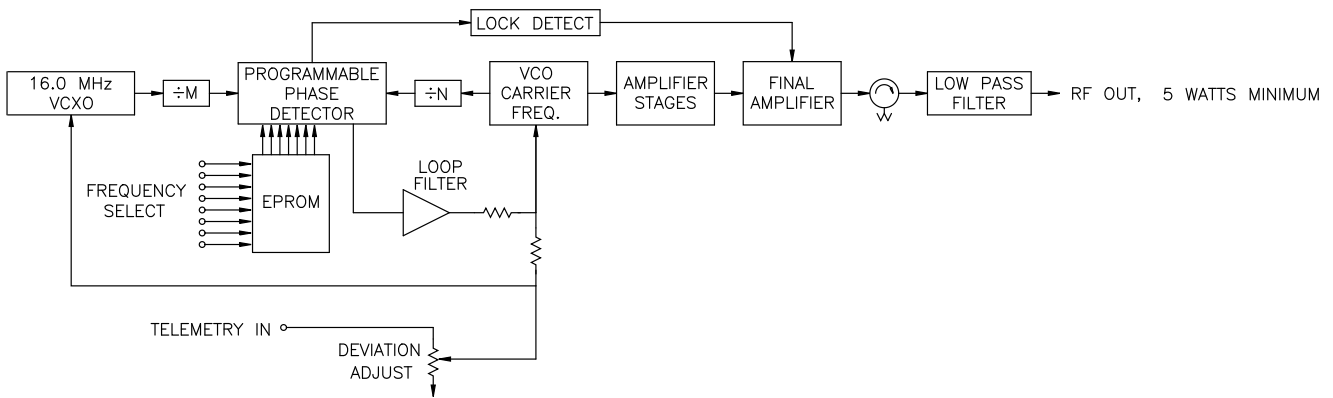


The HFTT405TS-4C Telemetry Transmitter is an S-band transmitter used primarily to relay telemetry data to a receiving ground station. The units are compact and desirable for those applications where DC power conservation, size and weight are at a premium. Applications include missiles, aircraft, unmanned airborne vehicles (UAV), sounding rockets, drone targets and space launch vehicles.

The design of the HFTT405TS-4C series utilizes the latest in modern devices and circuitry. They are all solid-state to provide a reliable product with extremely long operating life.

FEATURES:

- 5 Watt minimum power output
- Lightweight, 12 ounces maximum (340 grams)
- All solid-state design
- Reverse polarity protection



Typical Outline - does not show all features - not to be used for generation of control drawings. For detailed outline drawing of a specific part number please contact Herley Industries, Inc.
EXPORT SALES OF THIS PRODUCT ARE SUBJECT TO U.S. GOVERNMENT APPROVAL. SALES WILL NOT BE APPROVED TO COUNTRIES PROHIBITED BY THE INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (ITAR).
 THE INFORMATION IN THIS DOCUMENT IS BELIEVED TO BE ACCURATE AND RELIABLE, BUT IS NOT GUARANTEED AND IS SUBJECT TO CHANGE WITHOUT NOTICE. PERFORMANCE DATA REPRESENTS TYPICAL CHARACTERISTICS AND NOT SPECIFICATIONS AS ACTUAL, INDIVIDUAL PRODUCT PERFORMANCE MAY VARY. THE DATA SHOULD BE USED FOR BASIC INFORMATION ONLY. NO CLAIMS OR WARRANTIES ARE MADE AS TO THE APPLICATION OF HERLEY PRODUCTS OR THEIR SUITABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. NO LIABILITY IS ASSUMED BY HERLEY INDUSTRIES, INC. FOR ITS USE.

Telemetry Transmitter - *Model HFTT405TS-4C*

Versions: This product is available in several versions. Call to discuss other variations, or your particular requirements.

Product Numbers:

RF OUTPUT

CARRIER FREQUENCY: 2200.5 to 2299.5 MHz Channelized in 1.0 MHz Steps
FREQUENCY SELECTION: Via MDM-9P Connector
CARRIER STABILITY: Within $\pm 0.002\%$ over -20°C to $+70^{\circ}\text{C}$
POWER OUTPUT: 5 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 AND SPURIOUS LEVEL: In accordance with latest IRIG specifications

TM MODULATION INPUT

FREQUENCY RESPONSE: DC to 1.0 MHz ± 1.5 dB
PEAK DEVIATION: ± 1.0 MHz Maximum
DEVIATION NON-LINEARITY: 1.0% Maximum BSL for ± 750 KHz Deviation
DEVIATION SENSITIVITY: Factory set at ± 750 KHz / 1V RMS
HARMONIC DISTORTION: 1.0% maximum ± 750 KHz Deviation
INCIDENTAL AM: 5.0% maximum
INCIDENTAL FM: 10 KHz maximum
INPUT IMPEDANCE: 10 KOhms minimum

PHYSICAL

SIZE: 3.50 x 2.50 x 1.00 inches (8.9 x 6.4 x 2.6 cms)
WEIGHT: 12 ounces (340 gms) maximum

POWER REQUIREMENTS

INPUT VOLTAGE: $+28 \pm 4$ VDC; reverse polarity protected
INPUT CURRENT: 1.6 Amps maximum

ENVIRONMENTAL

VIBRATION: 14 g's random, standard haystack, 20 Hz to 2 kHz, 3 axes
TEMPERATURE, OPERATING: -54°C to $+85^{\circ}\text{C}$
TEMPERATURE, STORAGE: -54°C to $+125^{\circ}\text{C}$
SHOCK: Half sine, 100 g's peak, 11 msec, 3 axes
ACCELERATION: 100 g's, 3 axes
ALTITUDE: Unlimited
HUMIDITY: To 95% at any temperature forming frost or condensation

EXPORT SALES OF THIS PRODUCT ARE SUBJECT TO U.S. GOVERNMENT APPROVAL. SALES WILL NOT BE APPROVED TO COUNTRIES PROHIBITED BY THE INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (ITAR). THE INFORMATION IN THIS DOCUMENT IS BELIEVED TO BE ACCURATE AND RELIABLE, BUT IS NOT GUARANTEED AND IS SUBJECT TO CHANGE WITHOUT NOTICE. PERFORMANCE DATA REPRESENTS TYPICAL CHARACTERISTICS AND NOT SPECIFICATIONS AS ACTUAL, INDIVIDUAL PRODUCT PERFORMANCE MAY VARY. THE DATA SHOULD BE USED FOR BASIC INFORMATION ONLY. NO CLAIMS OR WARRANTIES ARE MADE AS TO THE APPLICATION OF HERLEY PRODUCTS OR THEIR SUITABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. NO LIABILITY IS ASSUMED BY HERLEY INDUSTRIES, INC. FOR ITS USE.