MODEL KMW2040M13
50 WATTS CW
200 MHz - 400 MHz

The Model KMW2040M13 is an RF power amplifier module for OEM applications or integration into a user system. The module comprises a printed wiring assembly housed in a machined aluminum enclosure mounted on a heatsink with feed-through capacitive terminals for connection to the DC power source. Cooling requirements defined by the data provided below and protection of the output devices against output mismatch are the responsibility of the user.

SPECIFICATIONS

RATED POWER OUTPUT	50 Watts
FREQUENCY RESPONSE	200 MHz - 400 MHz
INPUT FOR RATED OUTPUT	6 Watts maximum
FLATNESS	± 2 dB maximum (± 0.5dB from 350-390 MHz)
GAIN	9 dB minimum
IP3	50 dBm or higher (IMD @ 0.2MHz spacing –30dBc average, -23dBc worst case)
BROADBAND NOISE @ 1 MHZ BANDWIDTH	-145 dBm/Hz average
HARMONIC DISTORTION	– 35 dBc average (-17dBc worst case)
INPUT VSWR	1.3:1 average (1.8:1 maximum)
OUTPUT VSWR	Rated Power 2:1
	Mismatch Tolerance 10:1
PRIMARY POWER	24 V @ 5.5A (6A maximum)
RF CONNECTORS	SMA female
SIZE & WEIGHT(including heatsink)	10" x 7" x 4" (L x W x H), 10.75 lbs

TRANSMIT

POWER TO TRANSMIT	2 Watts minimum
TRANSMIT SWITCHING SPEED	40 mSec maximum
RECEIVE PATH LOSSES	0.7 dB maximum

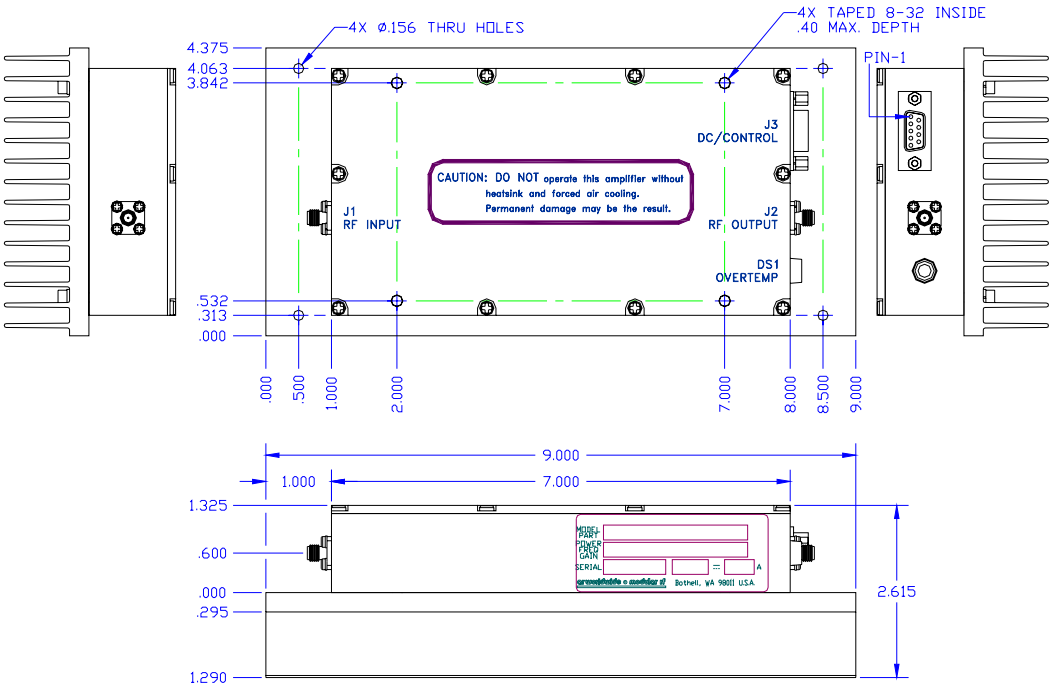
TEMPERATURE PERFORMANCE

OPTIMUM TEMPERATURE @ ENCLOSURE	<50° C
SHUTDOWN TEMPERATURE @ ENCLOSURE (Bypass mode)	+ 190° F

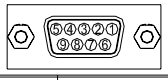
INTERFACE

+/- 28V	"+ " Pin 3, 4, 5 " – " Pin 7,8, 9
OVERTEMPERATURE STATUS	PIN 2 < 1V fault > 5V normal
TRANSMIT MODE	Pin 6 (ground or open collector ≥ 100mA)

DOC # 7-98-468-013
REV: E



J3 FUNCTIONS



J3-1	NOT USE
J3-2	OVERTEMP
J3-3	+28V
J3-4	+28V
J3-5	+28V
J3-6	TX (TEST)
J3-7	GND
J3-8	GND
J3-9	GND