

## 9.9 - 10.7 GHz 10W Amplifier

### FEATURES

- P<sub>1dB</sub>: 39dBm
- Small Signal Gain: 42dB
- TTL Control Power Turn ON/OFF: 1µS
- Bias Condition: 7A @ 12V

### DESCRIPTION

The TA099-107-41-40 is a 10W power amplifier designed for high linearity applications in the 9.9 to 10.7GHz frequency range. This amplifier utilizes high power devices that provide excellent linearity, high gain and wide dynamic range. High efficiency operation is achieved by using hybrid MIC designs and advanced GaAs PHEMT devices.

### ELECTRICAL SPECIFICATIONS (T<sub>a</sub> = 25 ° C)

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNITS
FREQ	Frequency Range	9.9		10.7	GHz
SSG	Small Signal Gain	39	42		dB
GOF	Small Signal Gain Flatness			±1.5	dB
GOT	Gain Variation Over Temperature			±2.0	dB
P <sub>1dB</sub>	Output Power at 1dB Gain Compression	39	40		dBm
VSWR, In	Input VSWR			2 : 1	-----
VSWR, Out	Output VSWR			2 : 1	-----
VDC	DC Supply Voltage (with built-in regulator)		+12		Volt
IDC	Current Supply		7		A
Switching Time	TTL Control Power ON/OFF			1	µS
OTR	Operating Temperature Range	-20	+25	+50	° C

CASE: HA2