



PRODUCT DATASHEET
MODEL KMA2040-M25
100-500 WATTS
200 kHz – 50 MHz

Amplifier model KMA2040-M25 is an RF power amplifier module for OEM applications or integration into a user system.

GENERAL SPECIFICATIONS

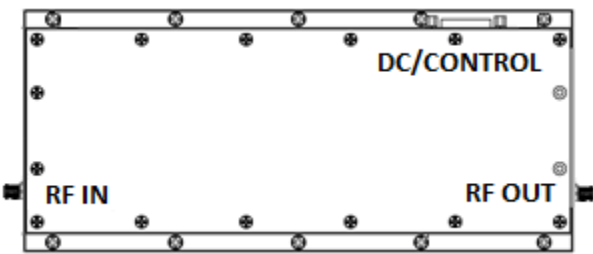
		Class A/100W
RATED POWER OUTPUT		100 Watts CW/avg
FREQUENCY		200 kHz – 50 MHz
DC FEED / MAX CURRENT		24V / 16 A
GAIN FLATNESS WINDOW		64-66 dB
Digital regrowth @48khz KSPS With 5db PAPR 2–30 MHz		< -30 dBc
HARMONICS (dBc)	2ND	-34 dBc typ -26 dBc max
	3RD	-30dBc typ -21 dBc max
ON/OFF TIME		<1.5 ms
ON/OFF RATIO		>85 dBc
INPUT VSWR		≤ 1.5:1
MISMATCH TOLERANCE		2:1 <i>Protection of the output devices against output mismatch are the responsibility of the user.</i>
Heatsink Rated Temperature		<55°C
Overtemperature Protection		Heatsink @ 80°C → overtemperature protection activated (amplifier shutdown) Heatsink @ 65°C → normal operation resumes <i>It is recommended sufficient cooling is provided to keep heatsink base temperature <55°C</i>

CONTROL INTERFACE

Control and monitoring of the amplifier is accomplished via a Hybrid D-SUB connector. All specifications listed below apply unless otherwise noted.

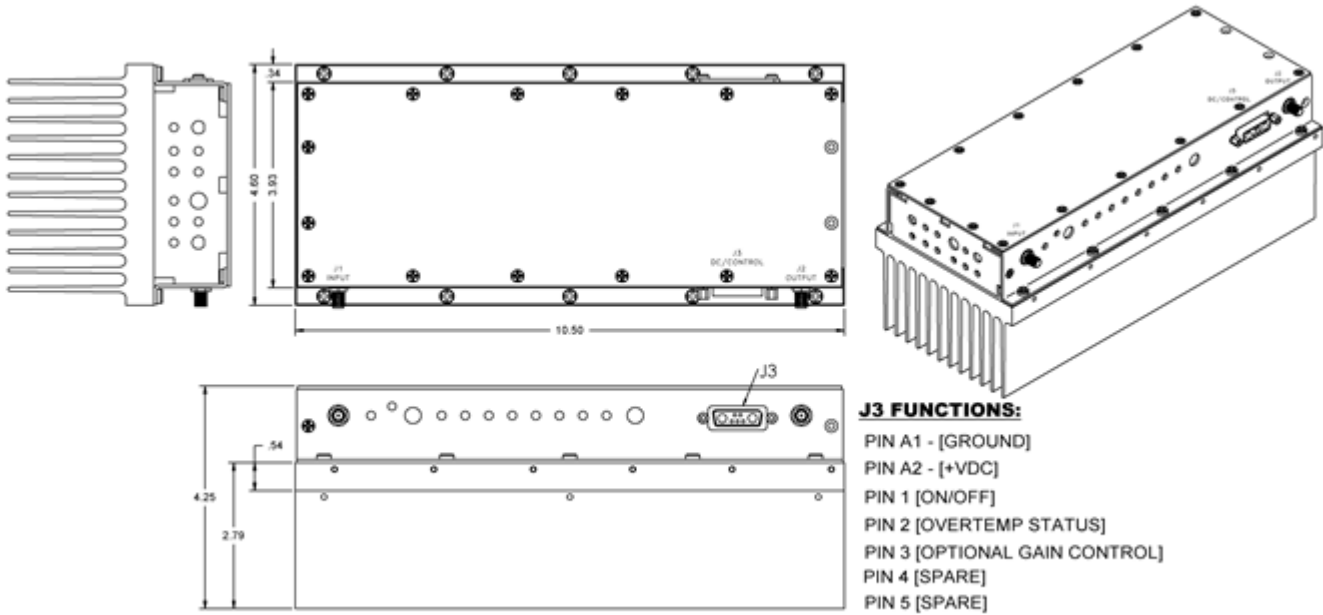
INTERFACE – DC POWER & CONTROL		
RF CONNECTORS	SMA FEMALE IN / OUT	
DC / CONTROL	Hybrid D-SUB (Mating Hybrid D-SUB connector is supplied)	
PINOUT	A1	GND
	A2	+VDC
	1	ON/OFF CONTROL (need sinking source >2mA) <ul style="list-style-type: none"> GND or $\leq 0.5V$ = OFF +5V or ON Not Connected = ON
	2	OVERTEMP STATUS: <ul style="list-style-type: none"> $\leq 0.1V$ = OVERTEMP $\geq 4V$ = NORM
	3	Reserved
4, 5	Reserved	

ORDERING INFORMATION

MODEL NAME	CONFIGURATION DETAILS	
KMA2040-M25C1	Performance: Class A/100W	

MECHANICAL DETAILS

MODEL NUMBER	HEATSINK INCLUDED	WEIGHT	SIZE (WxHxD)
KMA2040-M25	YES	7lbs	4.60" x 4.25" x 10.50"



Drawing for reference only. Details subject to change.