



**PRELIMINARY**  
**MODEL KMW2026M20 / KMW2026M21**  
**100W to 200W CW**  
**30 MHz - 512 MHz W/BREAK POINT**

The Model KMW2026M20/M21 is an RF power amplifier module for OEM applications or integration into a user system. In addition, the KMW2026M20/M21 has a 'break' in the amplifier chain with an SMA connector out and SMA connector in, allowing an external filter to be fitted. Multi-stage blanking is incorporated for minimum broadband noise when unkeyed. Cooling requirements defined by the data provided below and protection of the output devices against output mismatch are the responsibility of the user.

Specifications			
Primary Power		28.6V	36.6V
POWER CW @ 1dB*		100W	200W
Current CW		9.5A avg	12.5A avg
Gain with 6dB attenuator @ break	108-400MHz	52-55dB	
	30-512MHz	50-5dB	
AM Distortion 5% max * (tested at enclosure temp + 45°C and input AM distortion 0.5% max)	Power	40W + 90% mod	60W + 90% mod
	Current	7A avg	8A avg
Harmonics		2 <sup>nd</sup> 26dBc avg (- 18dBc max) 3 <sup>rd</sup> 15dBc avg (- 11dBc max)	
Broadband Noise		-114dBm/Hz avg	
On/Off Ratio		- 75dBc max	
On/Off Time with Delay		80µsec max	
Operating Temp @ Enclosure		- 10/+55°C	
Shutdown Temp @ Enclosure		+ 90°C	
Interface/Connector			
Input/Output/Breakpoints		SMA	
Power/Control	Pin 1, 2, 3 to -DC/ground Pin 7, 8, 9 to +DC	Filtered 9-pin D-sub	
On/Off Control (REQUIRED 20mA source)	Pin 4	0.5V or ground = OFF ≥ 4V or not connected = ON	
Overtemp Status	Pin 5	≥ 4V normal 0.5V overtemp	
Gain Control	Pin 6	Optional	
SIZE (H X W X D) KMW2026M20		3.00" X 5.09" X 10.00"	
SIZE (H X W X D) PRELIMINARY KMW2026M21		2.25" X 4.55" X 6.32"	

\* In 100-400 MHz Range.

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