



**MODEL KMW3434
30 Watts CW
400-450 MHz**

The Model KMW3434 is a class AB linear amplifier with fast on/off timing and provides in excess of 30 Watts CW output power into a 50 Ohm load. The module is designed for OEM applications or integration into a user system. The module features: Monitored forward and reflected detected output, Over-temperature protection; and interface connector with faults/status lines.

FREQ RANGE	434 MHz +/- 1 MHz
POWER INTO 2:1.....	30W @ 15VDC
CURRENT 30W @ 12.5V.....	≤ 5A
GAIN/FLATNESS @ 15W	58dB +/- 0.3dB
HARMONIC DISTORTION.....	< 30dBc
MISMATCH HANDLING.....	10:1
ON/OFF TIME.....	< 10 µsec
DIGITAL ATTENUATOR STEPS	0.5-1-2-4-8dB
RF CONNECTORS	SMA
INTERFACE CONTROL.....	16-Pin Connector**
BUILT-IN FORW/REFL COUPLER/DETECTOR	30dB Coupling [Detected]
SIZE (HxWxD)	2 x 3.1 x 4.6 inches

** Factory prewired Mating Cable 24" long; shipped with unit.

**INTERFACE 16-Pin CONNECTOR					
Wire Colors	Pin	Function	Description		
RED	10 & 11	+V	12-24V		
BLK	12 & 13	-V	12-24V		
BLK	6, 9, & 14	-V	Ground Return for Forw/Refl, ON/OFF, Temp Monitor		
GRN	8	Overtmp @80°C	> 5 = Normal < 0.5V = Shutdown		
WHT/ORN	7	ON/OFF	Not Connected or > 4V = ON Ground or < 0.5V = OFF		
ORN	15	Forw coupler/detector	30W into 50 Ohm	Forw 2.3V +/- 0.3V	Refl ≤ 0.23V
BLU	16	Refl coupler/detector	30W into open	Refl 1.3V +/- 0.2V	Forw 1.2V +/- 0.2V
Digital Attn. Control @ 25W			Ground or < 0.5V to activate one or combination of Pins		
VIO	1	0.5dB	0.5dB +/- 0.2dB		
YEL	2	1dB	1dB +/- 0.3dB		
WHT	3	2dB	2dB +/- 0.5dB		
GREY	4	4dB	4dB +/- 1.0dB		
BRN	5	8dB	8dB +/-1.5dB		

!!! All interface impedances are 10k pull-up [except coupler/detectors]