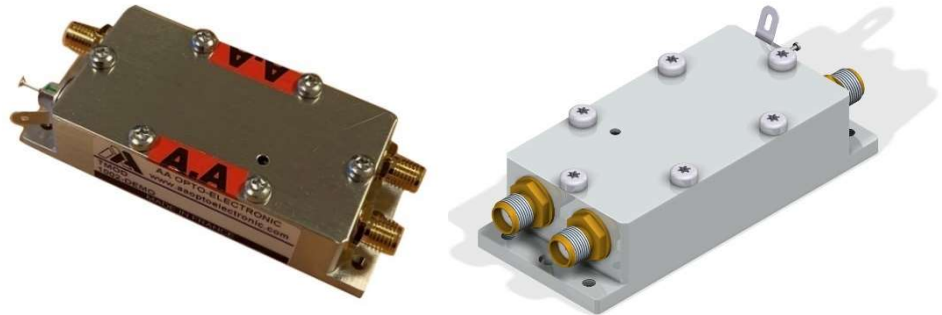


Product Overview

AA proposes a compact low heat dissipation fixed frequency driver for AO modulators and frequency shifters. The TMODxx drivers are based on oscillators and provide fixed frequencies such as 40 MHz, 80 MHz, 110 MHz... This driver has got an integrated amplifier which delivers the necessary RF power to drive the associated acousto optic device. The RF power can be externally modulated with convenient input signals analog + digital. Cooling is assured by conduction through baseplate for the OEM version.

Features

Fixed frequency in 20-160MHz
 Compact size
 Low heat dissipation
 Dual AM controls analog+digital
 High extinction ratio
 Output power up to 2.5W
 RoHS compliant



Technical Specifications

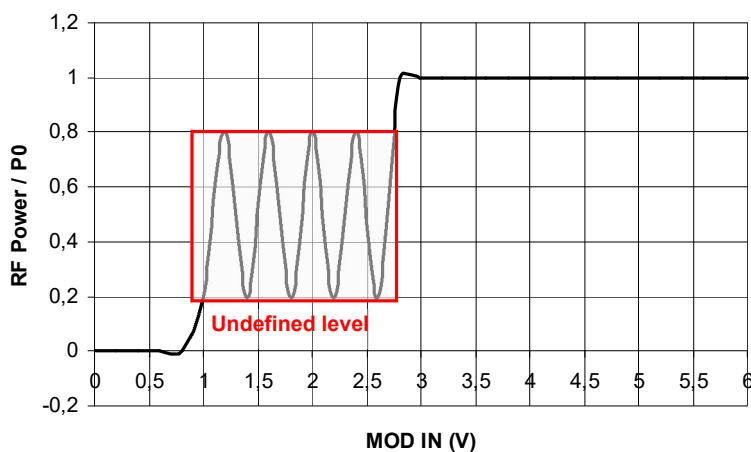
Parameter	Units	TMODxx
Carrier Frequency (MHz)	MHz	Any fixed in 20-160
Frequency Stability	ppm/°C	Nom +/- 1
Frequency Accuracy	ppm	< 50
Output RF Power	W	1 / 2.5
Power Supply OEM version	VDC	12 / 300-800mA
Power Supply Laboratory version	VAC	110-230 (Option)
Modulation Input Controls (DUAL AM)		Analog 0-5V/1Kohms + Digital (TTL/1kohms, pull down)
Rise Time/Fall time (10-90%)	ns	< 10 @70MHz, < 5 @150MHz
Input / Output Impedance	Ω	50
VSWR		< 1.5/1
Extinction Ratio	dB	> 45 analog > 100 digital @70MHz, > 85 digital @150MHz
Input / Output Connectors		SMA / SMA / Power supply pin through filter
Size / Weight	mm ³	70 x 30 x 15.8 / 80 g
Heat Exchange		Conduction through baseplate for OEM version Stand alone (fan integrated) for laboratory version
Operating Temperature	°C	10 to 40 (max Tcase 50°C)
Storage Temperature	°C	-40 to +70 Non condensing

Example of configuration: TMOD80-A41k51k-3445100 (80MHz, 12VDC, TTI/1Kohms+0-5V/1Kohms, 2W, 100db extinction (TTL))

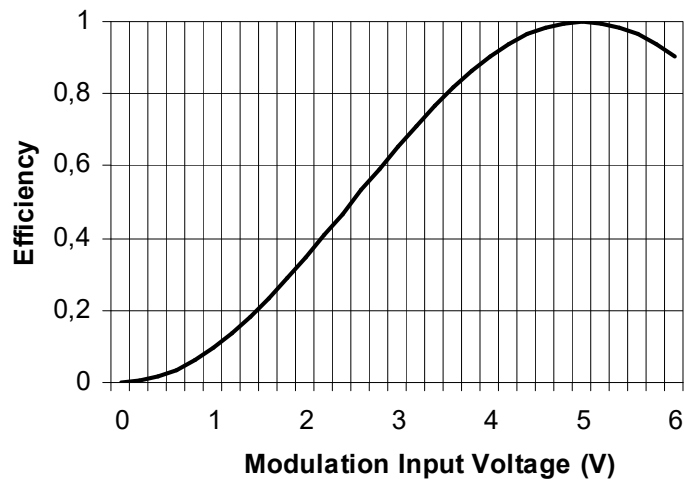
Typ Relative Output RF power vs ANALOG MOD IN (0-5V)



Relative Output RF power vs DIGITAL MOD IN (TTL)



AO relative Efficiency vs driver MOD IN



TMODxx – OEM – ≤2.5 Watts (mm)

