DR-AN-40-MO
Preliminary Data-sheet

This product is manufactured in France by **PHOTLINE Technologies.**

Description :

The DR-AN-40-MO is a non-inverting single-ended driver module with high output power for analog application. All specifications given at ambient temperature, unless differently specified

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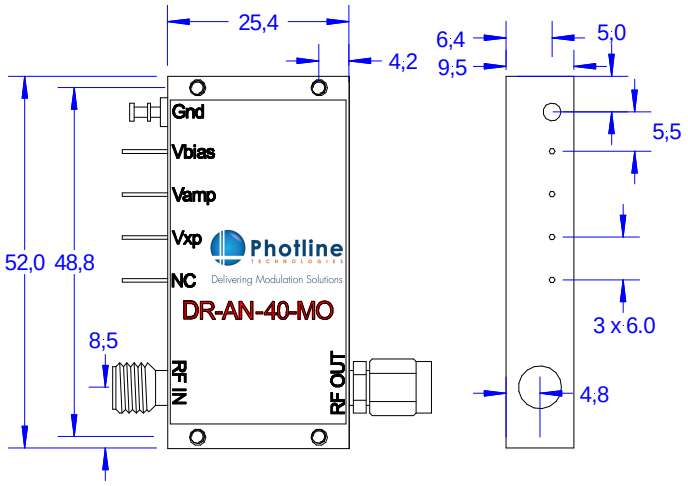
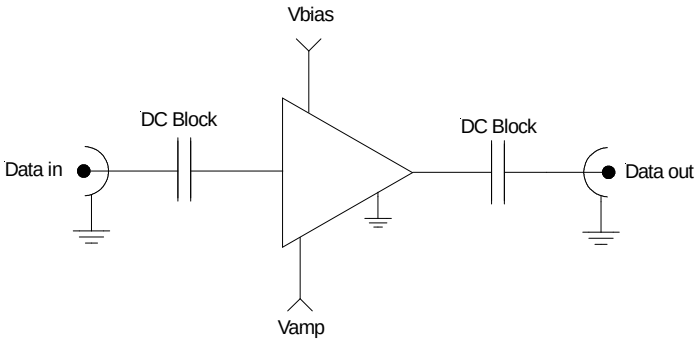
Parameter	Symbol	Unit	Min	Typ	Max	Conditions
Impedance		Ohm		50		
Low Frequency 3dB Point	f_{LOW}	kHz	100			
High Frequency 3dB Point	f_{HIGH}	GHz	30	35		
Small Signal Gain	S21	dB		26		< 20 GHz
Gain Flatness		± dB			1.5	< 20 GHz
Input Return Loss	S11	dB		-10		< 30 GHz
Output Return Loss	S22	dB		-10		< 30 GHz
Isolation	S12	dB		-60		< 30 GHz
Output Power 1 dB Compression	P1dB	dBm	15	17		< 20 GHz
Saturated Output Power	Psat	dBm	17			< 20 GHz
Noise Figure	NF	dB		TBD		
Input Power	Pin	dBm			0	
Driver Supply Voltage	Vbias	V	7	8	9	
Driver Supply Current	Ibias	mA		290	350	Vamp = 1.2 V
Output Power Control Voltage	Vamp	V	0		1.6	
Output Power Control Current	Iamp	mA	0	0	5	Vamp < 1.5 V
Vxp Voltage	Vxp	V	0	2.2	2.3	
Vxp Current	Ixp	mA	0	0	5	Vxp < 2.2 V
Input Connector	V Female (Option Male)					
Output Connector	V Male (Option Female)					
Dimensions		mm	25.6 x 52 x 9.5			excluding connectors
Storage Temperature	Tst	° C	-20		70	
Operating Temperature	Top	° C	0	25	40	
Power dissipation	Pdiss	W		2.2	3.2	

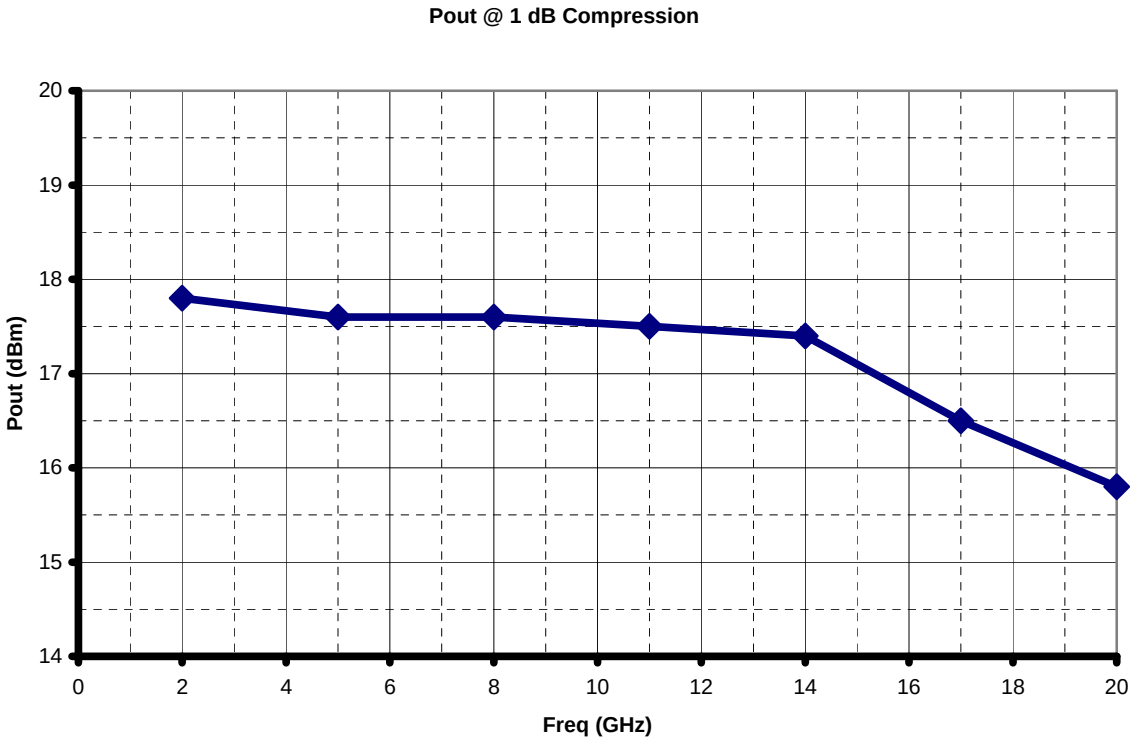
Package outline and pins (all dimensions in mm) :



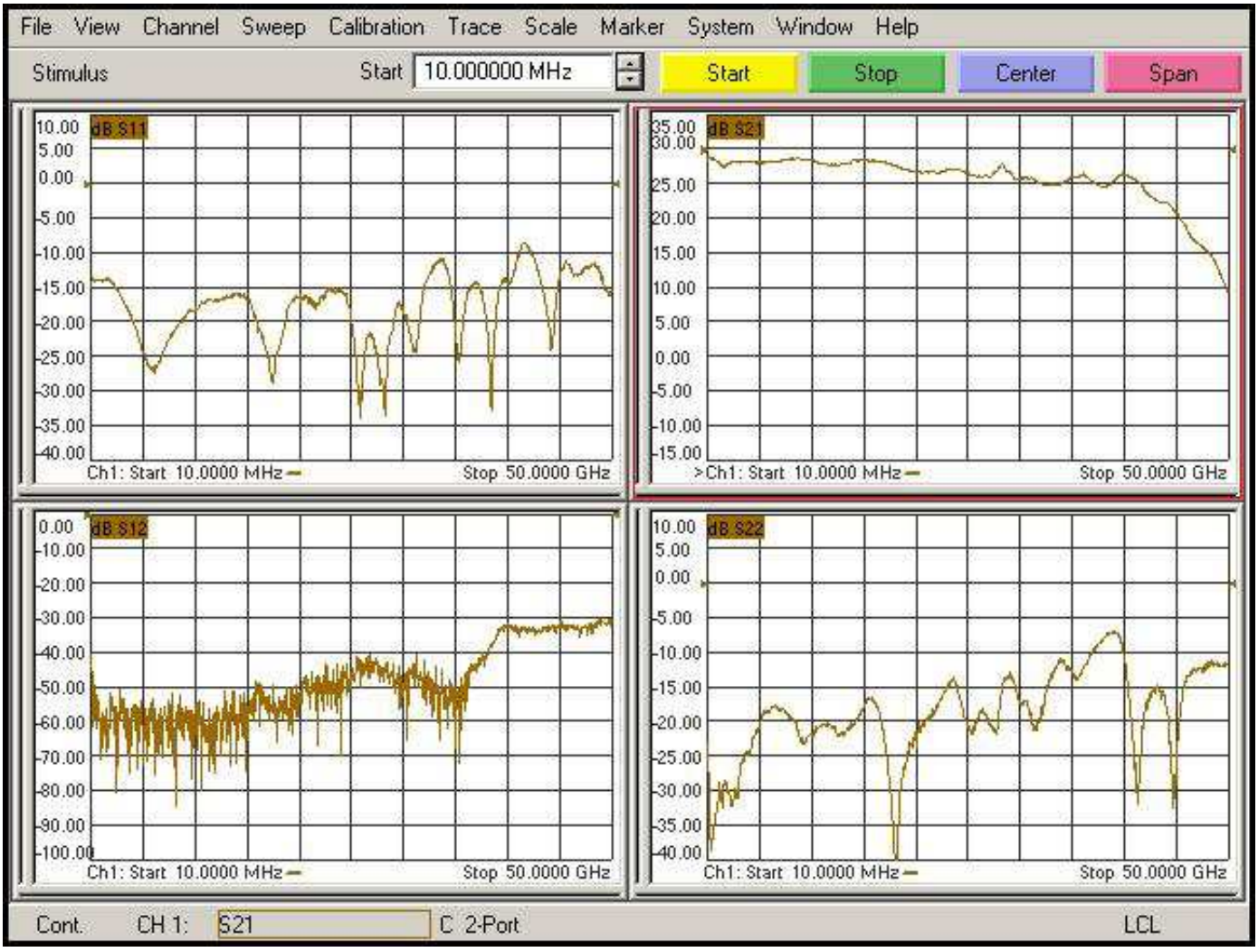
Electrical Schematic Diagram :



Output Power @ P1dB vs Frequency (Vbias = 8V, Ibias = 253 mA, Vamp =1.5 V, Vxp = 2.2V)



S parameters measurement (Vbias = 8V, Ibias = 253 mA, Vamp = 1.5V, Vxp = 2.2V) :



ZI Les Tilleroyes - Trépillot
16, rue Auguste Jouchoux - 250000 Besançon - FRANCE
tél. : +33 (0) 381 853 180 - fax : + 33 (0) 381 811 557
www.photline.com - contact@photline.com