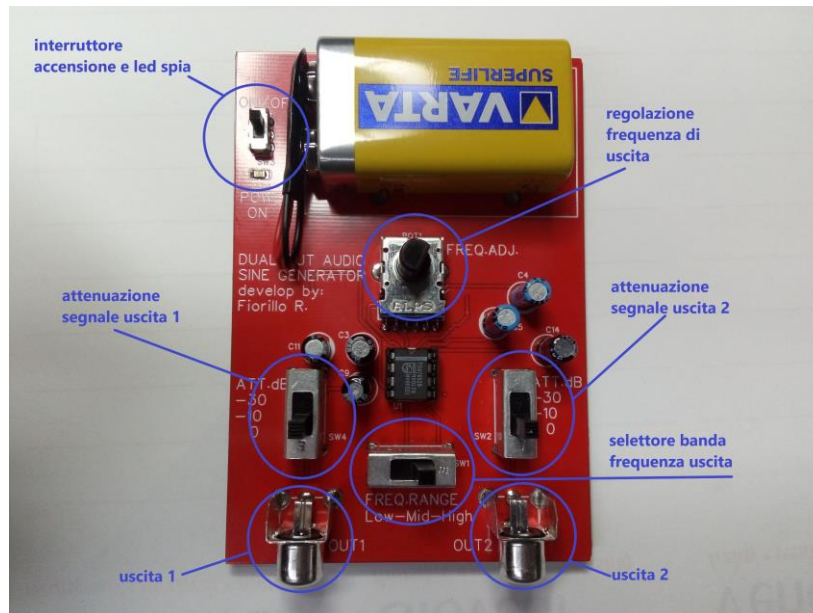


- Dual out 180° Out-of-phase sinusoidal generator
- Operating on audio band [20Hz .. 20KHz] (+/-10%)
- Low distortion, low noise, low power consumption
- Based on TDA 7052B low noise amplifier
- 600 ohm Output resistance
- 3 frequency ranges with fine frequency adjust
- Two Independent out attenuators 0, -10db, -30db
- +9V Battery operated



Top View

DESCRIPTION

The Dual Out Sinusoidal Generator is intended as a portable, easy, precise and low noise function generator of a pure sinusoidal wave on two channels with 180° out-of-phase relation. It covers the audio frequency bands from 20Hz up to 20KHz with 10% tolerance through 3 selectable ranges of frequency by selector and fine regulation with potentiometer. It can generate dual output with 3Vpp amplitude, with an independent selectable attenuation on the two output channels. The attenuation can be set independently by use of two selectors on the 0db, -10db and -30db attenuation. It is intended to be used for balanced input equipment testing with a portable tool easy to be used.

TECHNICAL DATA

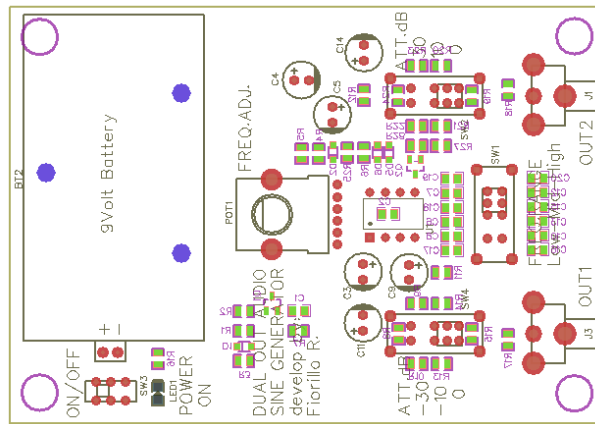
PARAMETER	DESCRIPTION	VALUE			UNIT
		MIN	TYP	MAX	
V_o	Output voltage			3	Vpp
f_t	Frequency Band (tolerance +/-10Hz)	20		20.000	Hz
A	Attenuation	-3	-10	0	dB
R_o	Output resistance		600		Ohm
V_{IN}	Power Supply Voltage		+9		V
I_{IN}	Power Supply Current	10	100	110	mA
P	Power Consumption approx.	10	20	30	mW

PCB DATA

PARAMETER	VALUE	UNIT
Dimensions Lenght x Width	100x70	mm
Colors	RED	
PCB thickness (RED, YELLOW)	1.6	mm
Layers	2	
Surface finish	HASL	
Copper Weight	1	oz
Material Details	FR4-Standard Tg 130-140C	



USER INFORMATION

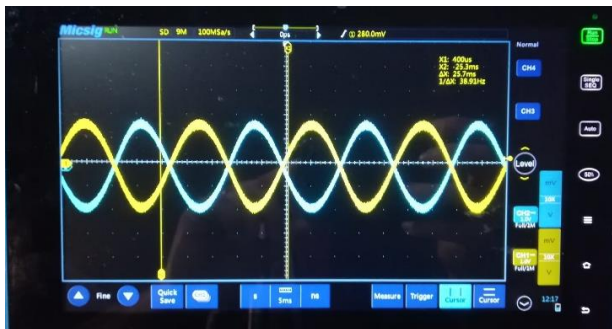


PCB References

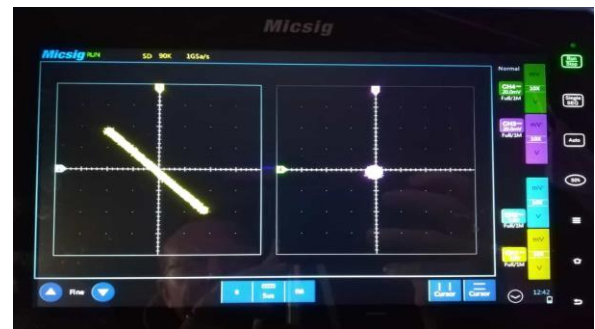
POWER UP

- Connect a+9V battery
- Set ON position on ON/OFF selector
- Verify the LED is ON
- Set frequency range by selecting on “FREQ. Range” selector
- Set attenuation on both channels by selecting on “ATTEN dB” selectors

ADDITIONAL INFORMATION



Dual Output 180° out-of-phase



Dual Output 180° out-of-phase (XY display)



FFT analysis

ORDERING INFORMATION

pieraisaforum@gmail.com



Pier Aisa Electronic
Community Forum

<https://pieraisa.it/forum/> pieraisaforum@gmail.com