

QSD-Nano

Introduction

The new generation of RF-driver mainly applied for controlling acoustic-optical modulators and q-switches in *industrial, medical, and scientific* Lasers.

Generals

The new QSDBL is a RF driver of the latest device generation sets new standard terms of reliability and functions.

Standard operation output frequencies offered from
27.12 MHz -40.68 MHz

Extended frequencies setup from 10MHz up to 80 MHz is available.

Controls

Several control interfaces are optional:

Digital First Pulse control standard interface → Direct replacement of former devices from BKT.

Analogues video Modulation control

Serial digital data control interface RS-232 /RS485/ CAN



20 watts



**Serial interface
for connection to a PC**



Software included

QSD-Nano

Description	MIN	Max	Unit
Output power (into 50Ω)	1	20	W
Power supply	23,5	24,5	V
Input current	.8	1.5	A
Fall time	80 @40MHz	120 @27MHz	ns
Rise time		180	ns
Pulse rate ext. FPK	DC	300	KHz
Modulation, analogues (FPK)	DC	2	MHz
Linearity - deviation	-	7	%
Operating frequency * factory setting standard	10	46	MHz
Temperature drift	-	0,1	W/K
Time to reach thermo stability	-	60	s
Harmonics suppression	50	-	dB
Dynamic response	45	-	dB
Maximum permissible VSWR		1:1.25	
Power loss	8	10	W
Airflow rate @ 40°C standard heat sink 150x100x25	2	na	l/s
Storage temperature	-5	+80	°C
Relative humidity in storage		90	%
Ambient temperature during operation	+5	+45	°C
Relative humidity during operation		75	%
Ambient conditions, room air		breathing air	
Dimensions L x W x H	-	102 x 80 x 29	mm
Weight * heat sink dependent	315	400	g