

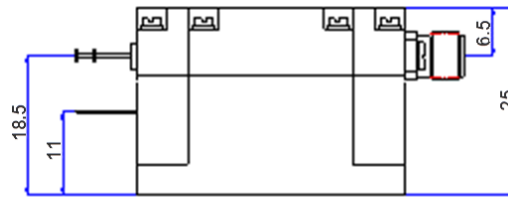
2-6GHz & 6-18GHz Bandwidth, YIG Tuned Oscillator

Part number: RYTO-2-6-10d-15v-nd-M1/ M2-i3, RYTO-6-18-10d-15v-nd-i3

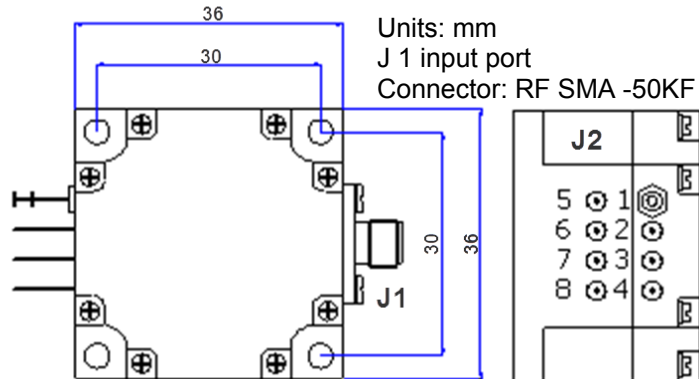


External Driver Optional Extra

-dd	Digital	optional
-ad	Analog	Optional
-nd	No drive	standard



Units: mm
Not to Scale



Specifications:	RYTO-2-6-M1	RYTO-2-6-M2	RYTO-6-18
Frequency Range, GHz	2-6	2-6	6-18
Power Output, Min (0~60°C)	10dBm	10dBm	10dBm
Power Variation, Max	±3dB	±3dB	±3dB
Harmonic, Max	-12 dBc	-12 dBc	-12dBc
Of resonance spurious, max	-60 dBc	-60 dBc	-60 dBc
Phase Noise @ 10KHz, Max	-110dBc/@ 10KHz	-95dBc/@ 10KHz	
	-120dBc/100KHz	-115dBc/100KHz	-95dBc/100KHz
Temperature Drift , max (0~60°C)	15MHz	15MHz	25MHz
Tuning Linearity, max	±0.15%	±0.15%	±.15%
Hysteresis, max	6MHz	6MHz	15MHz
Frequency Pushing, typ.	1.5MHz/V	1.5MHz/V	1.5MHz/V
Frequency Pulling, typ.(1.5:1VSWR)	0.2	0.2	0.2
J1 port	SMA-F	SMA-F	SMA-F
J2 port	8-PIN	DB25-PIN	8-PIN
Tuning Coil			
Sensitivity, typ.	25±1MHz/mA	25±1MHz/mA	30MHz/mA
Resistance, typ.	11Ω	11Ω	11Ω
3dB bandwidth, typ.	5kHz	5kHz	5kHz
Optional FM Coil			
Sensitivity, typ.	300±30kHz/mA	300±30kHz/mA	600±30kHz/mA
Resistance, typ.	1.5Ω	1.5Ω	2Ω

2-6GHz & 6-18GHz Bandwidth, YIG Tuned Oscillator

Part number: RYTO-2-6-10d-15v-nd-M1/ M2-i3, RYTO-6-18-10d-15v-nd-i3

Specifications:	RYTO-2-6-M1	RYTO-2-6-M2	RYTO-6-18
BIAS Current			
@+15Volts , max	200mA	200mA	200mA
@-5Volts, max	50mA	50mA	N/A
Heater Current			
@+15Volts , max @25°C Steady state	40mA	40mA	40mA

J2 8-PIN details

RYTO-2-6-10d-15v-dd-M1-i3

Pin	Definition	Note
1	Ground	common-ground with driver
2	Heater	+15V, surge current 500mA, steady current 40mA
3	-5V	Supplied by user, ripple voltage $\leq 10\text{mV}$ (peak-peak)
4	+12V	Supplied by user, ripple voltage $\leq 10\text{mV}$ (peak-peak)
5	Tuning-	About 2000 μF capacitor can be accessed while the assembly at static work state to improve the remainder output signals frequency of the oscillator.
6	FM+	-----
7	FM-	-----
8	Tuning+	About 2000 μF capacitor can be accessed while the assembly at static work state to improve the remainder output signals frequency of the oscillator.

RYTO-6-18-10d-15v-dd-i3

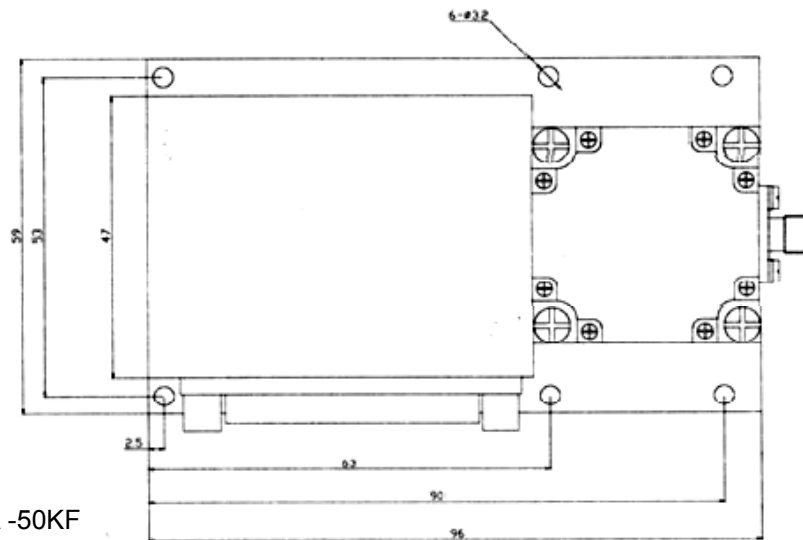
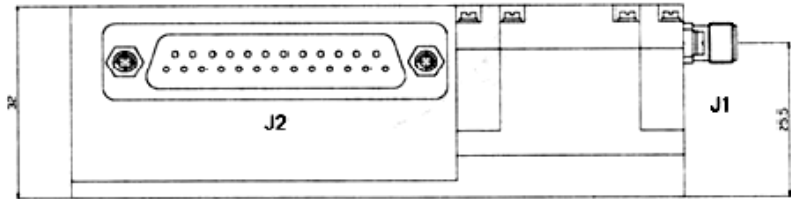
Pin	Definition	Note
1	Ground	common-ground with driver
2	Heater	+15V, surge current 500mA, steady current 40mA
3	Null	
4	+15V	
5	Tuning-coil	About 2000 μF capacitor can be accessed while the assembly at static work state to improve the remainder output signals frequency of the oscillator.
6	FM+	----- (for phase locking)
7	FM-	----- (for phase locking)
8	Tuning+ coil	About 2000 μF capacitor can be accessed while the assembly at static work state to improve the remainder output signals frequency of the oscillator.

2-6GHz & 6-18GHz Bandwidth, YIG Tuned Oscillator

Part number: RYTO-2-6-10d-15v-nd-M1/ M2-i3, RYTO-6-18-10d-15v-nd-i3



RYTO-2-6-10d-15v-nd-M2-i3



External Driver Optional Extra

-dd	Digital	optional
-ad	Analog	Optional
-nd	No drive	standard



Units: mm
 J 1 input port
 Connector: RF SMA -50KF

Tuning control port definition:

DB-25P PIN No.	Definition	NOTE	DB-25P PIN No.	Definition	NOTE
1	D11	MSB	14	+15V (DC)	Power supply
2	D10	DB	15	Null	External use forbidden
3	D9	DB	16	-15V (DC)	Power supply
4	D8	DB	17	Null	External use forbidden
5	D7	DB	18	Common	±15V Grounded
6	D6	DB	19	Null	External use forbidden
7	D5	DB	20	ground	Grounded
8	D4	DB	21	24V (DC) positive pole	Heater source
9	D3	DB	22	24V (DC) negative pole	24V (DC) Grounded
10	D	DB	23	Null	External use forbidden
11	D1	DB	24	Null	External use forbidden
12	D0	LSB	25	Null	External use forbidden
13	Null	External use forbidden			

Note:
 1. PIN21 +15V ripple voltage<10Mv (peak)
 2. PIN22 -5V ripple voltage<10Mv (peak)