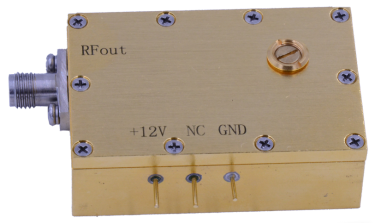
50 Ohm 17.4GHz 2.92mm-Female Dielectric Resonator Oscillator (DRO) Rated at 14dBm

Dielectric Resonator Oscillator

Type	DRO
Output Power	14 dBm
Output Freq.	17.4 GHz
P / N	DROI17400-1492_A
ID	DR00005



17.4GHz 2.92mm-Female Dielectric Resonator Oscillator DROI17400-1492_A

Features

- Output Power : 14 dBm
- Stainless Steel Connectors
- Harmonics : -20 dBc
- RoHS and REACH Compliant

Electrical Specifications (Design : DRO)

Description	Minimun	Typical	Maximum	Units	Condition
Output Freq.		17.4		GHz	
Freq. Stability			10	ppm/°C	
Mechanical Tuning		±50		MHz	
Output Power	14			dBm	
Power Variation				dB	over temperatura range
Harmonics	-20			dBc	
Spurious	-			dBc	
Pushing				KHz / V	@+12±0.5V
Pulling				MHz	@ VSWR 1.5 : 1
Frequency drift temp.			-	5ppm/ºC	
Supply Voltage		+12		V	
Current		300		mA	
Operating Temp.	-40		+70	℃	Relative Humidity 5 to 95%
Additional Conditions	Power stability : 0.1 dBm between +15°C and +30°C (design guarantee) ; Input/Output connectors : 2.92mm-Female(Removable Φ0.38 pin)				

: Electronic Specification Note : Values at 25deg , sea level. Test indicators will deteriorate at high and low temperature ;

Phase Noise

Freq. Offset from Carrieer	10Hz	100Hz	1KHz	10KHz	100KHz	1MHz
dBc/Hz				-70		

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Mechanical Specifications

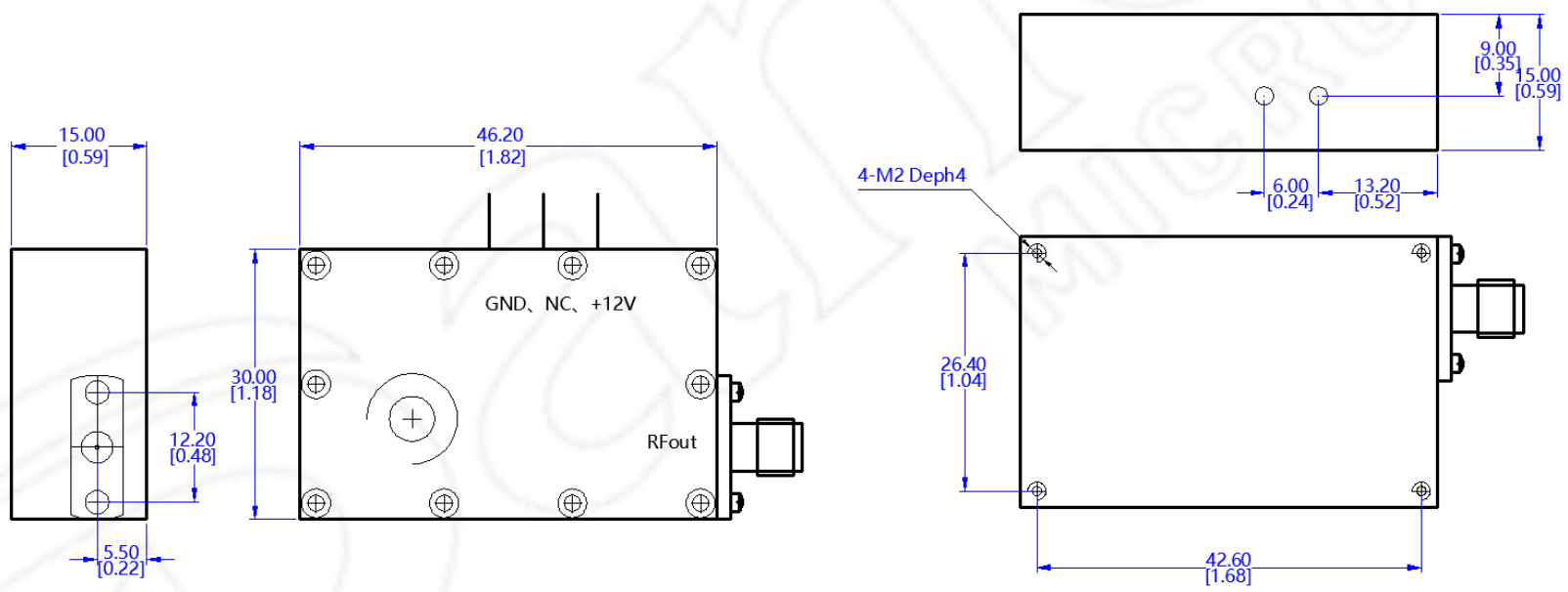
Description	Specification	Note
Cavity Material	Aluminum	
Dimension L*W*H	46.2*30*15mm	
Output Connectors	2.92mm-Female	Stainless Steel
Weight	120 g	
Finishing	Nickel Plated	
RoHS and REACH Compliant	Yes	

Outline Drawing

Dimensions are in mm [Inches]

Tolerances : Outline drawing: ±0.2 [0.008],

Hole: ±0.2 [0.008]



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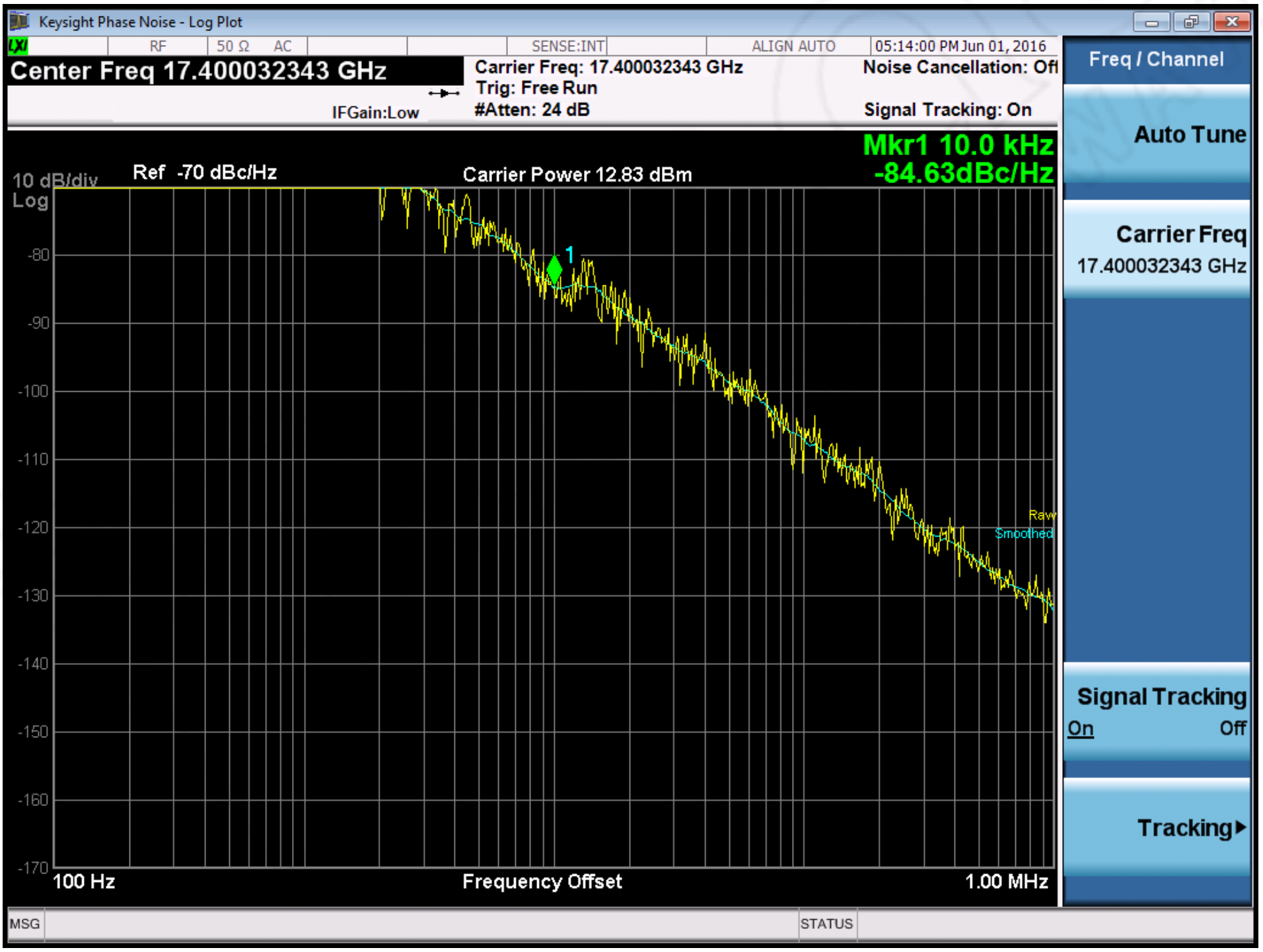
Test Curve

Test Freq. Range	17.4 GHz
Test Temperature	+25 ℃
P / N	[FMMH7D6]

17.4GHz 2.92mm-Female Dielectric Resonator Oscillator (DRO)

Output Power

Spurious and Harmonics

Phase Noise