NEL FREQUENCY CONTROLS, INC.

KS3005 Rev -

Specification for 16GHz Signal Sources

Model: N-DCN-SS163-000IR

Item	Specification	Note
1.0 Electrical Performance 1.1 RF Output Signal 1) Frequency Range 2) RF Output Power	 16.000GHz +16 dBm Min	 RL=50ohms
3) Phase Noise Level Offset 100 Hz 1 KHz *2 10 KHz *2 100 KHz *2 1 MHz	 ≦ -90 dBc/Hz ≦ -115 dBc/Hz ≦ -127 dBc/Hz ≦ -130 dBc/Hz ≦ -130 dBc/Hz	 Offset: 10MHz to 1GHz ≦ -140 dBc/Hz Typical ≦ -135 dBc/Hz Max
4) Spurious Non-Harmonics Harmonics	 ≦ -65 dBc ≦ -35 dBc	
1.2 External Reference 1) Input Frequency 2) Input Level 3) Phase Noise Level	 10.000 MHz Sine Wave 0 dBm Typical C/N ≦-150dBc/Hz @100Hz	 Input Impedance=50ohms
1.3 Reference Output 1) Output Frequency 2) Output Level 3) Phase Noise Level *1 4) Frequency Stability	10.000MHz Sine Wave +6dBm±2dB, C/N ≧-150dB/Hz @100Hz Same as Ext.Ref.IN	RL=50ohms
1.4 DC Power	+12V±5% 600mA Max	
2.0 Operating Temp. Range	-20 ～ +70 deg.C	
3.0 Package 3.1 Package Size 3.2 Connector	*2 115(L) × 70(W) × 28(T) mm Tolerance : ±0.1mm RF_OUT : SMA(F) REF_IN, REF_OUT : SMA(F) DC Power : Feedthrough	See attached

*1 Frequency Stability, 1x10-7 will be kept by Internal Reference when No External Reference in.

*2 Modified by Rev.1 Final spec.

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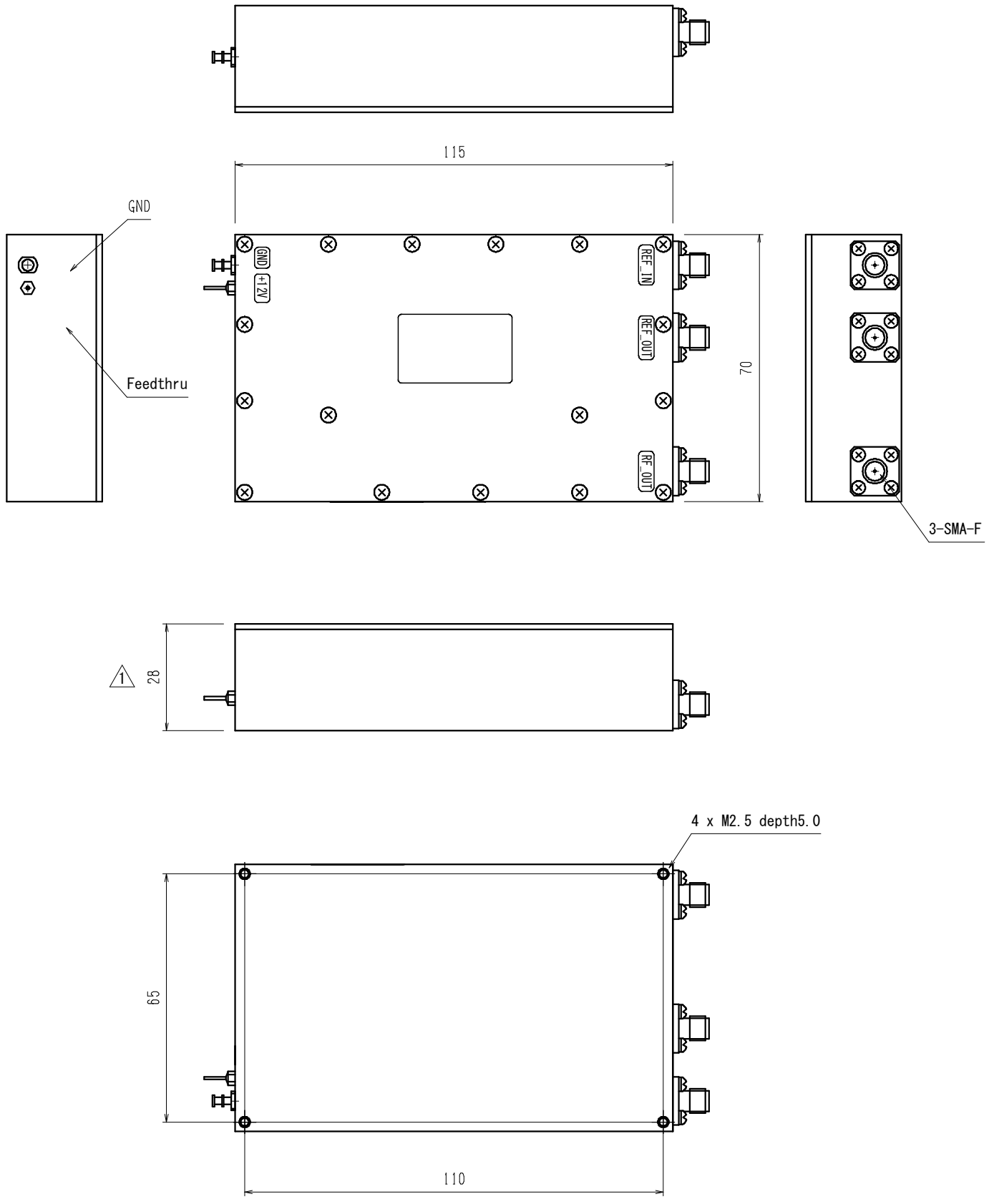

UNIT : mm

RoHS

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16GHz Signal Source	
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