Too MHz  Level  +16 dBm ±2 dB into 50 ohms  STABILITY  Aging  1 x 10 <sup>-6</sup> first year after 30 days operating, typical 5 x 10 <sup>-7</sup> second year, typical 3 x 10 <sup>-7</sup> per year thereafter, typice  Phase Noise L(f)  100 Hz	Too MHz  Level +16 dBm ±2 dB into 50 ohms  STABILITY  Aging 1 x 10 <sup>-6</sup> first year after 30 days operating, typical 5 x 10 <sup>-7</sup> second year, typical 3 x 10 <sup>-7</sup> per year thereafter, typical 100 Hz -119 dBc/Hz 1 KHz -145 dBc/Hz 1 KHz -145 dBc/Hz 100 KHz -165 dBc/Hz 100 KHz -167 dBc/Hz Temperature Stability ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°C)  Harmonics ≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C	OUTPUT	
Level +16 dBm ±2 dB into 50 ohms  STABILITY  Aging  1 x 10 <sup>-6</sup> first year after 30 days operating, typical 5 x 10 <sup>-7</sup> second year, typical 3 x 10 <sup>-7</sup> per year thereafter, typice  Phase Noise L(f) 100 Hz -119 dBc/Hz 1 KHz -145 dBc/Hz 10 KHz -165 dBc/Hz 100 KHz -167 dBc/Hz  Temperature Stability ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°  Harmonics ≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage	Level +16 dBm ±2 dB into 50 ohms  STABILITY  Aging  1 x 10 <sup>-6</sup> first year after 30 days operating, typical 5 x 10 <sup>-7</sup> second year, typical 3 x 10 <sup>-7</sup> per year thereafter, typica  Phase Noise L(f) 100 Hz -119 dBc/Hz 1 KHz -145 dBc/Hz 10 KHz -165 dBc/Hz 100 KHz -167 dBc/Hz Temperature Stability ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°C)  Harmonics ≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage	Frequency	
+16 dBm ±2 dB into 50 ohms  STABILITY  Aging  1 x 10 <sup>-6</sup> first year after 30 days operating, typical 5 x 10 <sup>-7</sup> second year, typical 3 x 10 <sup>-7</sup> per year thereafter, typice  Phase Noise L(f)  100 Hz -119 dBc/Hz 1 KHz -145 dBc/Hz 10 KHz -165 dBc/Hz 100 KHz -167 dBc/Hz  Temperature Stability ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°  Harmonics ≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage	+16 dBm ±2 dB into 50 ohms  STABILITY  Aging  1 x 10 <sup>-6</sup> first year after 30 days operating, typical 5 x 10 <sup>-7</sup> second year, typical 3 x 10 <sup>-7</sup> per year thereafter, typical 100 Hz -119 dBc/Hz 1 KHz -145 dBc/Hz 10 KHz -165 dBc/Hz 100 KHz -167 dBc/Hz 100 KHz -167 dBc/Hz 100 KHz -167 dBc/Hz  Temperature Stability ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°C)  Harmonics ≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage		
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Aging  1 x 10 <sup>-6</sup> first year after 30 days operating, typical 5 x 10 <sup>-7</sup> second year, typical 3 x 10 <sup>-7</sup> per year thereafter, typic  Phase Noise L(f)  100 Hz -119 dBc/Hz 1 KHz -145 dBc/Hz 10 KHz -165 dBc/Hz 100 KHz -167 dBc/Hz  Temperature Stability ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°  Harmonics ≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage	Aging  1 x 10 <sup>-6</sup> first year after 30 days operating, typical 5 x 10 <sup>-7</sup> second year, typical 3 x 10 <sup>-7</sup> per year thereafter, typical 100 Hz -119 dBc/Hz 1 KHz -145 dBc/Hz 10 KHz -165 dBc/Hz 100 KHz -167 dBc/Hz 100 KHz -167 dBc/Hz 100 KHz -167 dBc/Hz 100 KHz -167 dBc/Hz  Temperature Stability ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°C)  Harmonics ≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage		2 db into 50 onms
1 x 10 <sup>-6</sup> first year after 30 days operating, typical 5 x 10 <sup>-7</sup> second year, typical 3 x 10 <sup>-7</sup> per year thereafter, typic  Phase Noise L(f) 100 Hz -119 dBc/Hz 1 KHz -145 dBc/Hz 10 KHz -165 dBc/Hz 100 KHz -167 dBc/Hz  Temperature Stability ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°  Harmonics ≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage	1 x 10 <sup>-6</sup> first year after 30 days operating, typical 5 x 10 <sup>-7</sup> second year, typical 3 x 10 <sup>-7</sup> per year thereafter, typical 100 Hz -119 dBc/Hz 1 KHz -145 dBc/Hz 10 KHz -165 dBc/Hz 100 KHz -167 dBc/Hz  Temperature Stability ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°C)  Harmonics ≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage		
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10 KHz -165 dBc/Hz 100 KHz -167 dBc/Hz  Temperature Stability ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°  Harmonics ≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage	10 KHz -165 dBc/Hz 100 KHz -167 dBc/Hz Temperature Stability ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°C) Harmonics ≤ -25 dBc Sub-Harmonics ≤ -60 dBc Spurious ≤ -80 dBc, excluding power supply line related spurs MECHANICAL Dimensions 3.25 x 4 x 1" Connectors SMA(f) and solder pins on side Packaging Nickel-plated machined aluminum housing – G1 Mounting Threaded inserts on base, #2-56, 6 places POWER REQUIREMENTS Warm-Up Power ≤ 14 Watts for 5 minutes Total Power ≤ 8 Watts at +25°C Supply Voltage	100 Hz	-119 dBc/Hz
Temperature Stability  ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°  Harmonics  ≤ -25 dBc  Sub-Harmonics  ≤ -60 dBc  Spurious  ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions  3.25 x 4 x 1"  Connectors  SMA(f) and solder pins on side  Packaging  Nickel-plated machined aluminum housing – G1  Mounting  Threaded inserts on base,  #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power  ≤ 14 Watts for 5 minutes  Total Power  ≤ 8 Watts at +25°C  Supply Voltage	Temperature Stability  ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°C) Harmonics  ≤ -25 dBc Sub-Harmonics  ≤ -60 dBc Spurious  ≤ -80 dBc, excluding power supply line related spurs MECHANICAL Dimensions  3.25 x 4 x 1" Connectors  SMA(f) and solder pins on side Packaging  Nickel-plated machined aluminum housing – G1 Mounting  Threaded inserts on base, #2-56, 6 places POWER REQUIREMENTS Warm-Up Power  ≤ 14 Watts for 5 minutes Total Power  ≤ 8 Watts at +25°C Supply Voltage	1 KHZ	-145 dBc/HZ
Temperature Stability  ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°  Harmonics  ≤ -25 dBc  Sub-Harmonics  ≤ -60 dBc  Spurious  ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions  3.25 x 4 x 1"  Connectors  SMA(f) and solder pins on side  Packaging  Nickel-plated machined aluminum housing – G1  Mounting  Threaded inserts on base,  #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power  ≤ 14 Watts for 5 minutes  Total Power  ≤ 8 Watts at +25°C  Supply Voltage	Temperature Stability  ±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°C) Harmonics  ≤ -25 dBc Sub-Harmonics  ≤ -60 dBc Spurious  ≤ -80 dBc, excluding power supply line related spurs MECHANICAL Dimensions  3.25 x 4 x 1" Connectors  SMA(f) and solder pins on side Packaging  Nickel-plated machined aluminum housing – G1 Mounting  Threaded inserts on base, #2-56, 6 places POWER REQUIREMENTS Warm-Up Power  ≤ 14 Watts for 5 minutes Total Power  ≤ 8 Watts at +25°C Supply Voltage	10 KHZ	-100 0BC/HZ
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Harmonics  ≤ -25 dBc  Sub-Harmonics  ≤ -60 dBc  Spurious  ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions  3.25 x 4 x 1"  Connectors  SMA(f) and solder pins on side  Packaging  Nickel-plated machined aluminum housing – G1  Mounting  Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power  ≤ 14 Watts for 5 minutes  Total Power  ≤ 8 Watts at +25°C  Supply Voltage	Harmonics  ≤ -25 dBc  Sub-Harmonics  ≤ -60 dBc  Spurious  ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions  3.25 x 4 x 1"  Connectors  SMA(f) and solder pins on side  Packaging  Nickel-plated machined aluminum housing – G1  Mounting  Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power  ≤ 14 Watts for 5 minutes  Total Power  ≤ 8 Watts at +25°C  Supply Voltage	-7	
≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage	≤ -25 dBc  Sub-Harmonics ≤ -60 dBc  Spurious ≤ -80 dBc, excluding power supply line related spurs  MECHANICAL  Dimensions 3.25 x 4 x 1"  Connectors SMA(f) and solder pins on side  Packaging Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage		of to +50°C (Ref +25°C
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Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage	Nickel-plated machined aluminum housing – G1  Mounting Threaded inserts on base, #2-56, 6 places  POWER REQUIREMENTS  Warm-Up Power ≤ 14 Watts for 5 minutes  Total Power ≤ 8 Watts at +25°C  Supply Voltage		solder pins on side
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Total Power ≤ 8 Watts at +25°C Supply Voltage	Total Power ≤ 8 Watts at +25°C Supply Voltage	•	
≤ 8 Watts at +25°C Supply Voltage	≤ 8 Watts at +25°C Supply Voltage		ioi o minutes
Supply Voltage	Supply Voltage		t ±25°C
+10 VUC +0%			

ADJUSTMENT	
Mechanical Tuning	
±4 x 10 <sup>-6</sup>	

# **Electrical Tuning**

±5 x 10<sup>-7</sup>, ±5 VDC

Negative slope

## **CRYSTAL**

## Type

100 MHz SC-cut (x7)

#### **OTHER**

### Label

Use conventional label with the following information: 501-27305 (Current Rev.) 700 MHz GMXO-FR +15 VDC Serial # - Date Code (Mark connectors with function)

#### **Test Data**

Output Level Phase Noise Temperature Stability Harmonics, Subs, Spurious Power – Warm-up and Total Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	11-01-13	Initial Release	Liz	
Α	02-06-14	Output Level to +16 dBm	PAC	

G1 Connections		
Function		
Supply Voltage		
Ground, Case		
Electrical Tuning		
RF Output		





