

Applications

- Secondary radar applications

AXMW1030GYT-01 Specifications

Parameter	Min.	Typ.	Max.	Unit	Condition
Nominal frequency		1030.000		MHz	
Frequency stability					
Initial tolerance @ +25 °C			±10	ppm	
vs. operating temperature range			±30	ppm	
Operating temperature range	-40		+70	°C	
Long term (aging) per year			±5	ppm	
RF output					
Signal waveform	Sine wave				
Load R_L		50		Ω	
Output level @ +25 °C	+10	+12		dBm	@ $V_{Gate} > +3.5$ V
			-60	dBm	@ $V_{Gate} < +1.5$ V
Sub-harmonics			-30	dBc	Multiples of 103 MHz
Harmonics			-40	dBc	
Gate function					
Low level input voltage V_{Gate}		0	1.5	V	
High level input voltage V_{Gate}	3.5	5.0	5.5	V	
Input resistance		10		k Ω	
Input capacitance			10	pF	
Turn-on time			30	ns	
Turn-off time			30	ns	
Supply voltage V_S	11.4	12.0	12.6	V	
Current consumption		42	50	mA	@ $V_{Gate} > +3.5$ V
		7	15	mA	@ $V_{Gate} < +1.5$ V
Operable temperature range	-55		+85	°C	
Storage temperature range	-55		+125	°C	
Enclosure (L × W × H)	54 × 40 × 19 max.			mm	h = 2.0 mm
Weight		60		g	
Packing	Palette				
Reliability (Note 2)	633 fit / MTBF = 180 years				Operating @ +70 °C
	< 10 fit				Storage @ +25 °C

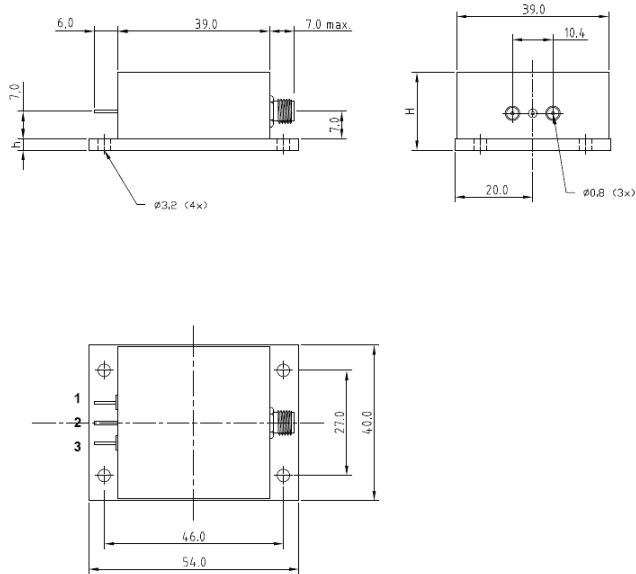
Notes: 1. Terminology and test conditions are according to IEC 60679-1, unless otherwise stated
2. Calculated in accordance with IEC 61709

Ordering Code

Model (specification)	Revision	Frequency [MHz]
AXMW1030GYT-01	Rev.3	1030.000

Outline Dimensions & Pin Connections (mm)

Enclosure drawing



Pin connections

Pin #	Symbol	Function
1	GATE	Gating input
2	GND	Ground
3	V _S	Supply voltage
SMA	RF OUT	RF output

Environmental Conditions

Test	IEC 60068 Part	IEC 60679-1 Clause	Test conditions
Sealing tests (if applicable)	2-17	4.6.2	Gross leak: Test Qc
Solderability	2-20	4.6.3	Test Ta (235 ± 5) °C Method 1
Resistance to soldering heat	2-58		Test Tb Method 1A, 5 s
Shock*	2-27	4.6.8	Test Ea, 3 x per 6 axes 50 g, 11 ms half-sine pulse
Vibration, sinusoidal*	2-6	4.6.7	Test Fc, 30 min per axis, 10 Hz – 55 Hz 0.75 mm; 55 Hz – 2 kHz, 10 g
Endurance tests			
– Ageing		4.7.1	30 days @ 85 °C, OCXO @ 25 °C
– Extended ageing		4.7.2	1000 h, 2000 h, 8000 h @ 85 °C
* Endurance test			

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