

14.5GHz Dielectric Resonator Oscillator

AB-DRO-14.5GHz



RoHS
Compliant



55.0 x 55.0 x 22.0 mm

FEATURES:

- High Carrier Frequency –14.5GHz
- Wide operating temperature range
- Linear Tuning Range
- Low Power Design (300mA max)
- High Output Power (+12dBm min)
- Excellent VSWR characteristics
- Low Phase Noise
- Low Spurious and Harmonic content

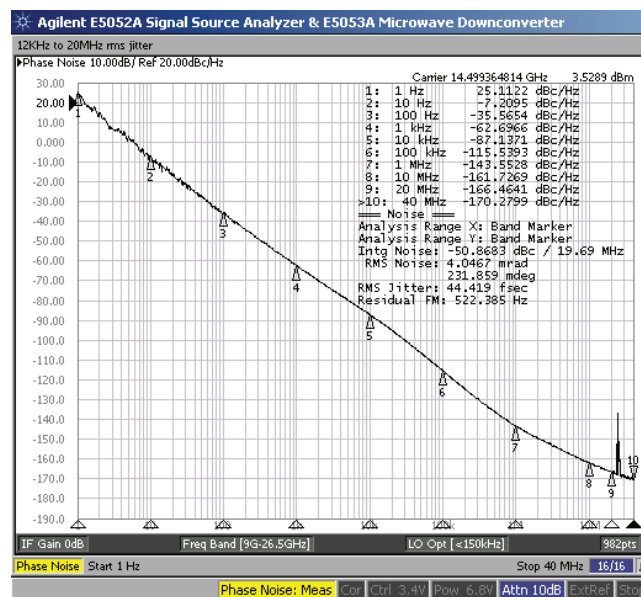
APPLICATIONS:

- Transmitters & Receivers
- Digital radios
- Satellite communications
- Cable TV links (CATV)
- Local Area Networks (LAN)
- Global Positioning Systems (GPS)
- Test Equipment
- LMDS
- Up/Down Converters
- Point to Point communication
- Military, Space, and Commercial

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency		14.500		GHz	
Operating Temperature	-20		+70	°C	
Storage Temperature	-20		+70	°C	
Tuning Range	-10		+10	MHz	
Frequency Pushing		20		kHz/V	
Frequency Pulling		5		MHz	
Frequency drift temperature coefficient		+5		ppm/°C	
Supply Voltage (V _{DD})		+15		V	
Supply Current (I _{DD})			200.00	mA	
Output Power	13			dBm	
Output Power Variation	-2		+2	dB	
VSWR		1.5:1			50Ω impedance
Phase Noise			-80 -100	dBc/Hz	@10kHz @100kHz
Harmonics			-20	dBc	
Spurious			-70	dBc	

PHASE NOISE:



ABRACON IS
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Revised: 08.16.12

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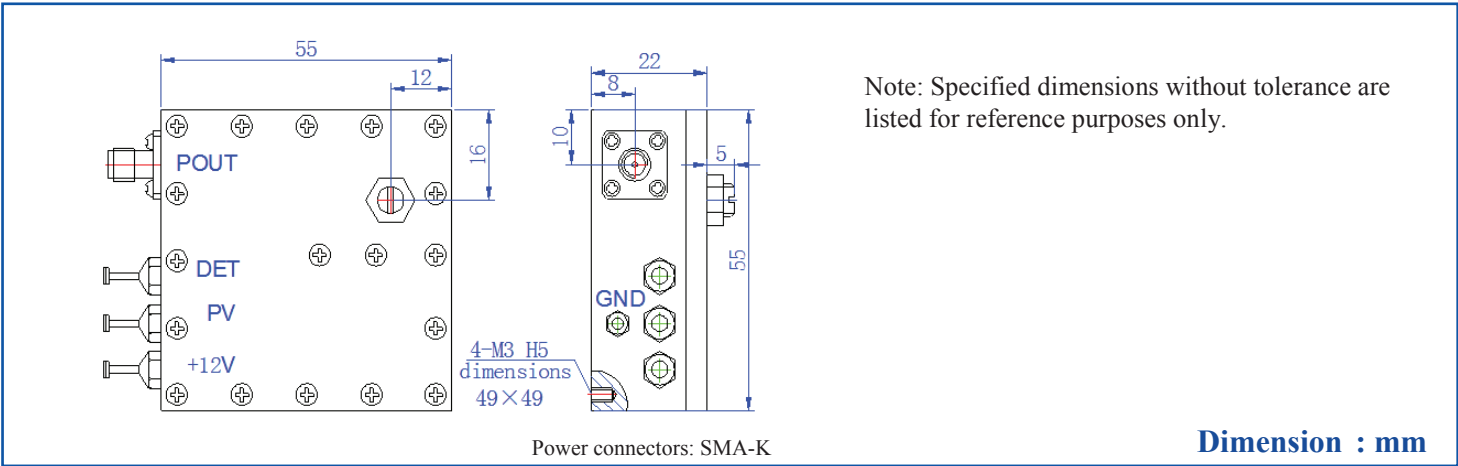


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MARKING:



OUTLINE DRAWING:



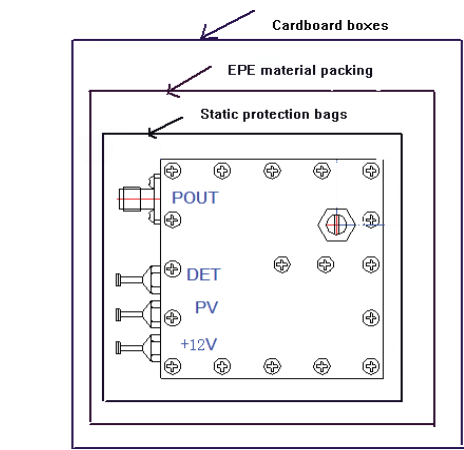
Power connectors: SMA-K

Dimension : mm

PACKAGING:

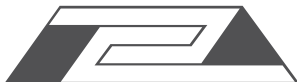
Packaging: 1pc/box

Dimension of the cardboard box: 17.5cm*13.5cm*7cm



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