

**RF SIGNAL GENERATOR**
**RF Signal Generator 2425 / 2427 / 2429**


Model	2425	2427	2429
<b>Frequency</b>			
Frequency Range	9 kHz to 1 GHz	9 kHz to 2 GHz	9 kHz to 3 GHz
Frequency Resolution	0.1 Hz		
Frequency Stability			
-Ageing Rate for reference frequency	< 1 x 10 <sup>-6</sup> /year		< 2 x 10 <sup>-7</sup> /year
-Temp. stability for reference frequency	< 0.5 x 10 <sup>-6</sup>		< 2 x 10 <sup>-7</sup>
<b>Spectral Purity</b>			
SSB Phase Noise at 1GHz, on 20KHz offset and	< -115 dBc		< -95 dBc
Harmonics at levels 0 dBm	at 1GHz < -30 dBc	at 2GHz < -30 dBc	at 3GHz < -30 dBc
Non Harmonics (>10 KHz carrier offset)	< -60 dBc		
Reverse Power Protection	50 Watt		2 Watt
<b>Output Level</b>			
Range	-137 dBm to +13 dBm		
Resolution	0.1 dB		
Total Accuracy (for levels > -120 dBm) at 25°C	< ± 0.8 dB		< ± 1 dB
VSWR	< 1.5	< 1.5 at 1GHz and	< 1.5 at 1GHz and
Simultaneous Modulations	Combination of AM, FM or Phase Modulation and Pulse Modulation		AM, FM or Phase Modulation,
Amplitude Modulation	Internal, external		
Modulation Frequency Range (3dB), f > 100 KHz	DC / 10 Hz to 20 KHz		
Modulation Depth	0 to 99.9%	0 to 100%	
Resolution	0.1%		
AM Distortion at 1 KHz	< 1.5% (m= 30%)		< 5% of reading + 0.2%
Frequency Modulation	Internal, external		
Frequency Deviation	0 Hz to 1 Mhz at 1 GHz carrier	0 Hz to 1 MHz at 2 GHz carrier	20 to 100 KHz
Resolution	1% min. 10 Hz		1% min. 1 Hz
Modulation Frequency Range (-3 dB) std	DC / 10 Hz to 20 KHz		DC / 20 Hz to 80 KHz
Setting Error (at AF = 1 KHz and 50% max.	<4% of reading +20Hz		<5% of reading +300 Hz
Phase Modulation	Internal, external		
Phase Deviation	0 rad to 10 rad (min)		
Resolution	0.01 rad.		
Setting Error (at AF = 1 KHz)	< 4% of reading + 0.02 rad.		< 5% of reading + 0.2 rad.
<b>Pulse Modulation</b>			<b>With built-in pulse generator</b>
Operating Modes	Internal, External		
Pulse repetition frequency	0 Hz to 2.5 MHz		
ON / OFF ratio	> 80 dB		
<b>Internal Modulation Generator</b>			
Frequency	0.1 Hz to 1 MHz with resolution of 0.1 Hz		20 Hz to 80KHz with resolution of
Rise / Fall Time			<3 micro sec
I/Q Modulation			External, DC to 40MHz
<b>Sinad</b>			
Input Frequency	1 KHz		
Input Level	30 mV to 3 V r.m.s.		
Indication	Analogue meter, scaled range 30 dB to 6 dB		
Impedance	≥ 7/5 K ohms		
Bandwidth (± 3 dB)	60 Hz to 6 KHz		
<b>General</b>			
Memory	100 Storage settings		
Digital Sweep	RF, AF in Automatic, Single shot, manual, Logarithmic modes		RF, LF in Continuous Sweep,
Interface	IEEE-488 and RS 232		USB, RS 232, IEEE-488
Operating Temperature Range	0 to 45 degree C		
Power Requirement	230V+/-10% AC, 50 Hz +/-3%		

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