

## 6. Sapphire oscillator

### 6-2.R10 Rack mounted

The TQSRO-R10 is a high performance microwave frequency source. It provides 10G frequency signals with phase noise below -155dBc@10kHz and is suitable as a reference source for precision measurements in the X-band and beyond.



Test Item	Nominal value	
Nominal frequencies	10GHz/5GHz/2.5GHz/1.25GHz/100MHz	
Start-up time	< 15minutes	
Frequency stability	1E-11	
Burn-in	±1E-8/year	
Level	>+7dBm	
Output VSWR	< 1.5	
Harmonic	< -30 dBc	
Phase Noise	off-carrier	Nominal value
	10Hz	-30~-90dBc/Hz
	100Hz	-80~-113dBc/Hz
	1kHz	-116~-142dBc/Hz
	10kHz	-138~-157dBc/Hz
	100kHz	-153~-165dBc/Hz
	1MHz	-158~-170dBc/Hz
Supply Voltage	220V, 50Hz	
Supply Current	< 0.4A	
External Dimension	482×133×350mm	