



T-9500/9600 Series



1. Specification

Type:	T-9500 +5V $\pm$ 5%	T-9600 +3.3V $\pm$ 5%
Nom. freq. range, T = 25°C:	10.0 MHz to 36.0 MHz	
Nominal frequency tolerance @ T=25°C:	< $\pm$ 1.0 ppm	
Temperature stability Options: ±1.0ppm vs. -10°C to +60°C : ±1.5ppm vs. -10°C to +60°C : ±2.0ppm vs. -20°C to +70°C : ±2.5ppm vs. -30°C to +75°C : ±4.0ppm vs. -30°C to +80°C : ±2.0ppm vs. -40°C to +85°C : ±3.0ppm vs. -40°C to +85°C :	T-9501 T-9510 T-9520 T-9530 T-9540 T-9550 T-9560	T-9601 T-9610 T-9620 T-9630 T-9640 T-9650 T-9660
Frequency stability vs. supply voltage changes UB $\pm$ 5 %: vs. load changes $\pm$ 10 %:	< $\pm$ 0.3 ppm < $\pm$ 0.2 ppm	
Aging @ 40°C :	< $\pm$ 1.0 ppm / year	
Frequency Control Options :	F : $\pm$ 5ppm E : $\pm$ 8ppm T : $\pm$ 10ppm X : Fixed frequency oscillator	
Control voltage Uc :	0.5 V to 2.5 V	0.5V to 2.5V
Transfer function / Linearity:	positive / 10 %	
Current consumption:	$\leq$ 1.5 mA < 15MHz $\leq$ 2.0 mA > 15MHz	
Output voltage : load :	Clipped Sinewave, 0.8Vpp 10kOhm // 10pF	
Start up time:	$\leq$ 10 msec. within $\pm$ 1ppm	
Phase Noise (typical) 10Hz: 100Hz: 1kHz: 10kHz:	-80dBc -110Bc -130dBc -140dB	

4	New Temp.stab Option	16.02.05	M.Zupan	KVG Quartz Crystal Technology GmbH P.O.Box 61 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
3	Temp.stab.Options	07.05.03	M. Zupan	
2	Adjustment tolerance @ 25°C	31.03.03	H. Kuntz	
1		23.05.02	M. Zupan	
ED	Description	Date	Name	

2. Environmental conditions

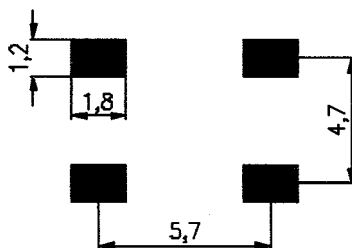
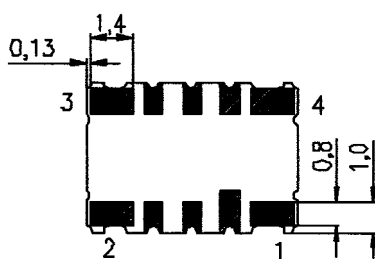
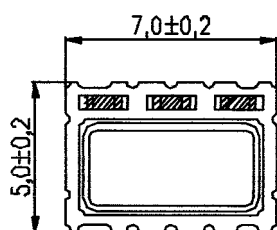
According to KVG Product Qualification Procedure AA-QM-200

3. Marking

Manufacturer's name, date code(week/year); Specification; Center frequency

4. Case

Case Style BF-189-2.0



Recommended Soldering Pattern

Pin configuration

1. N.C. or control voltage U_c
2. Ground, Case
3. RF-output
4. Supply voltage U_b

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