



ROHS-Compliant Product

NWT-S527-LF



1. Specification (Preliminary)

Nominal Frequency	500.000 MHz
Initial frequency tolerance ($T_A = +25\text{ °C}$):	$< \pm 1.0\text{ ppm}$
Frequency stability in the temp. range -40 °C to $+85\text{ °C}$: vs. supply voltage changes $V_C \pm 5\%$: vs. load changes $\pm 10\%$:	$< \pm 1.0\text{ ppm}$ $< \pm 0.1\text{ ppm}$ $< \pm 0.1\text{ ppm}$
Aging @ $+40\text{ °C}$:	$< \pm 0.5\text{ ppm} / 1^{\text{st}}\text{ year}$ $< \pm 2.5\text{ ppm} / 20\text{ years}$
Total frequency stability including frequency stability vs. temperature, vs. load changes $\pm 10\%$, vs. supply voltage changes $\pm 5\%$ and 20 years aging @ $+40\text{ °C}$	$< \pm 5.0\text{ ppm}$
Frequency correction: (by external control voltage)	$> \pm 5.0\text{ ppm}$
Modulation Bandwidth (-3 dB):	$> 10\text{ kHz}$
Control voltage V_C :	$+0.5\text{ V}$ to $+4.5\text{ V}$
Slope / Linearity:	Positive / 10%
Supply voltage V_S :	$+5.0\text{ V} \pm 5\%$
Current consumption:	$\leq 40\text{ mA}$
Output signal: Level: Load:	sinewave $1.0\text{ to }2.0\text{ Vpp}$ 50 Ohm
Subharmonics:	$< -50\text{ dBc}$
Phase noise @ df: 1 kHz: 10 kHz: 100 kHz: 1 MHz: 10 MHz:	typical values $-110\text{ dBc} / \text{Hz}$ $-133\text{ dBc} / \text{Hz}$ $-143\text{ dBc} / \text{Hz}$ $-143\text{ dBc} / \text{Hz}$ $-144\text{ dBc} / \text{Hz}$
Temperature ranges Operating: Storage:	$-40\text{ °C} \dots +85\text{ °C}$ $-45\text{ °C} \dots +90\text{ °C}$

2. Environmental conditions

According to KVG Product Qualification Procedure AA-QM-202



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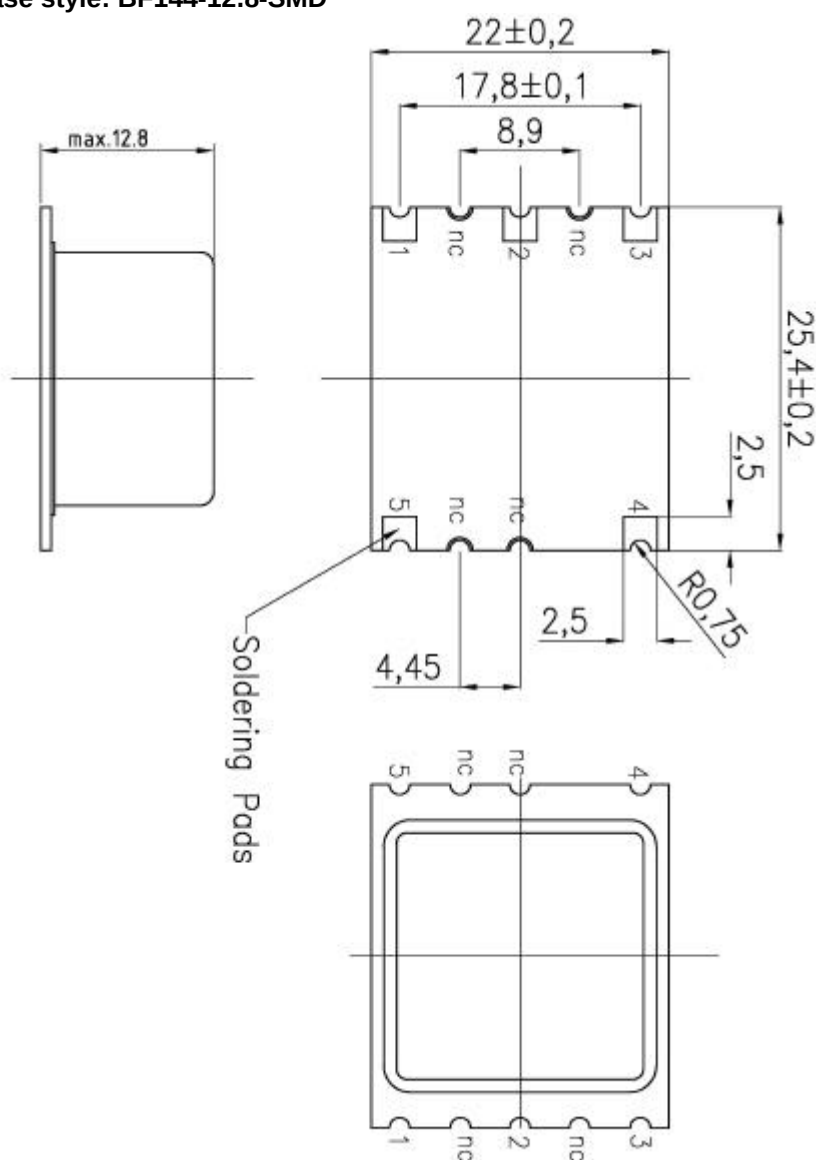


3. Marking

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

4. Case

Case style: BF144-12.8-SMD



1.Pin configuration

1. Control voltage V_c
2. Ground, case
3. Supply voltage V_s
4. HF output
5. Ground, case

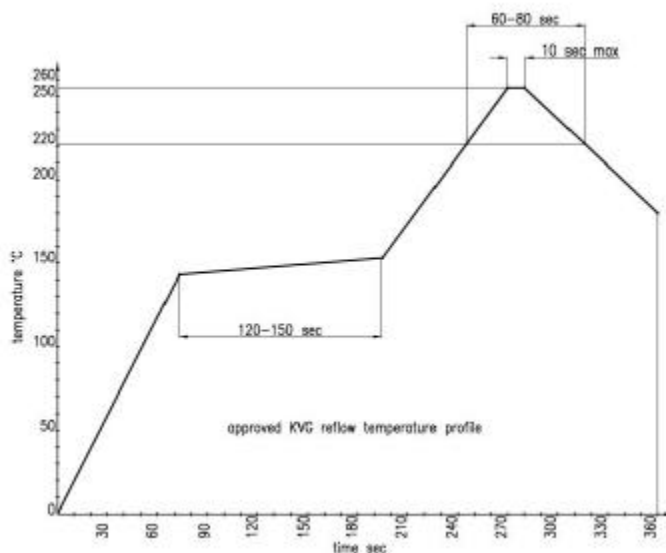


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5. Soldering profile



6. Tape and reel

