

**END OF LIFE ANNOUNCEMENT (EOL)**

To: Our valued customers

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Attention: Purchasing, Engineering, QA / QC

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Customer P/N: Any equivalent to below listed NKG thru-hole Ceramic Resonator families

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NKG P/N: All PNs of **01-CR3-10** family

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Description: Ceramic SMD package 4.9x1.8mm tuning fork crystal 32.768kHz

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EOL Date: **2021-05-01**

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To whom it may concern,

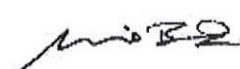


We regret that we have to announce that effective by May 1<sup>st</sup> 2021, our Tuning Fork 32.768kHz crystal in ceramic SMD package size 4.9x1.8mm will be not available anymore. The material supplier has announced to stop supplying us the parts needed due to the very low demand in the past 5 years. Also the fact that we did not have orders for the past years lead us to the immediate announcement without further support guaranty.

As replacement is no direct drop-in part available with the same size, it is necessary to use a smaller SMD size package. This requires a small adjustment of the solder pads on the PCB in order to fit another ceramic SMD package tuning fork crystal with 2 pads.. The following suggestions we would like to present:

1. The next smaller size SMD crystal, 4.1x1.5mm (NKG's 01-CR3-09 family) we do not recommend since this will be next package size that will become faced out in future.
2. We recommend using the ceramic SMD package size 3.2x1.5mm (NKGs 01-CR3-07 family), it can be available for load capacitances 12.5pF and also for 9pF, 7pF and 6pF. This smaller package size tuning fork crystal is specified with a standard ESR 70kΩ, but it can be made available for 60kΩ MAX as well and be therefore the same as the model we EOL here. For more information please check our website, or request from our sales a specific datasheet.  
[http://nkg.com.hk/datasheet/NKG\\_TuningFork\\_SMD\\_3215\\_\(CR3-07\).pdf](http://nkg.com.hk/datasheet/NKG_TuningFork_SMD_3215_(CR3-07).pdf)
3. The other, even smaller package sizes that are available can be considered as well, but since the ESR of these models is higher, it is necessary that a qualification test is performed first.

Please check our website for datasheets. <http://nkg.com.hk/tuning.php>

Kindly contact our sales team for more information, for equivalent datasheets and eventually upcoming sample requests.

M. Bruech  N.C. Wong   2021-05-01

VP QA/ENG President NKG 董事长 Date

ATTACHMENTS	1	General product specification of 01-CR3-10 sereis	Rev. D
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