

## Mean Time Between Failures (MTBF) Declaration

**Date of Issue:** 14<sup>th</sup> February 2019

**Manufacturer:** Tekron International Ltd

**Address:** Level 1, 47 The Esplanade  
Petone  
Lower Hutt, 5012  
New Zealand

**Product Model Number:** TCG02-G

**Oscillator Option:** TCXO

**Declaration:**

This declaration is issued under the sole responsibility of Tekron International Limited. The TCG02-G (with the TCXO Oscillator option) is calculated to have Mean time between failures (MTBF) as follows:

**MTBF: 166,000 Hours | 19 Years**

The following Prediction Parameters were applied in full in accordance with the Telcordia SR-332 Issue 4 Prediction Standards:

<b>Environment</b>	Ground, Fixed, Uncontrolled (Limited)
<b>Unit Method</b>	I
<b>Device Method</b>	I-D
<b>Device Quality</b>	II (Commercial grade, Quality controlled)
<b>Operating Temperature</b>	45 Degrees Celsius (25° Ambient + 20° Internal differential)
<b>Electrical Stress</b>	50%

**Supplementary Information:**

<b>Computed Utilizing</b>	Ericsson ARPP, Version 12.1a, 2017
<b>Technical / Compliance File Held by:</b>	Tekron International Ltd Level 1, 47 The Esplanade, Petone, Lower Hutt, 5012, New Zealand



Signature of Authorized Person:

14 February 2019

**Frank Simmons:** CEO, Tekron International Ltd

Date of Signature

## Mean Time Between Failures (MTBF) Declaration

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**Manufacturer:** Tekron International Ltd

**Address:** Level 1, 47 The Esplanade  
Petone  
Lower Hutt, 5012  
New Zealand

**Product Model Number:** TCG02-G

**Oscillator Option:** VCTCXO

**Declaration:**

This declaration is issued under the sole responsibility of Tekron International Limited. The TCG02-G (with the VCTCXO Oscillator option) is calculated to have Mean time between failures (MTBF) as follows:

**MTBF: 164,000 Hours | 19 Years**

The following Prediction Parameters were applied in full in accordance with the Telcordia SR-332 Issue 4 Prediction Standards:

<b>Environment</b>	Ground, Fixed, Uncontrolled (Limited)
<b>Unit Method</b>	I
<b>Device Method</b>	I-D
<b>Device Quality</b>	II (Commercial grade, Quality controlled)
<b>Operating Temperature</b>	45 Degrees Celsius (25° Ambient + 20° Internal differential)
<b>Electrical Stress</b>	50%

**Supplementary Information:**

<b>Computed Utilizing</b>	Ericsson ARPP, Version 12.1a, 2017
<b>Technical / Compliance File Held by:</b>	Tekron International Ltd Level 1, 47 The Esplanade, Petone, Lower Hutt, 5012, New Zealand



Signature of Authorized Person:

**Frank Simmons:** CEO, Tekron International Ltd

14 February 2019

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**Date of Issue:** 14<sup>th</sup> February 2019

**Manufacturer:** Tekron International Ltd

**Address:** Level 1, 47 The Esplanade  
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Lower Hutt, 5012  
New Zealand

**Product Model Number:** TCG02-G

**Oscillator Option:** OCXO

**Declaration:**

This declaration is issued under the sole responsibility of Tekron International Limited. The TCG02-G (with the OCXO Oscillator option) is calculated to have Mean time between failures (MTBF) as follows:

**MTBF: 152,000 Hours | 17 Years**

The following Prediction Parameters were applied in full in accordance with the Telcordia SR-332 Issue 4 Prediction Standards:

<b>Environment</b>	Ground, Fixed, Uncontrolled (Limited)
<b>Unit Method</b>	I
<b>Device Method</b>	I-D
<b>Device Quality</b>	II (Commercial grade, Quality controlled)
<b>Operating Temperature</b>	45 Degrees Celsius (25° Ambient + 20° Internal differential)
<b>Electrical Stress</b>	50%

**Supplementary Information:**

<b>Computed Utilizing</b>	Ericsson ARPP, Version 12.1a, 2017
<b>Technical / Compliance File Held by:</b>	Tekron International Ltd Level 1, 47 The Esplanade, Petone, Lower Hutt, 5012, New Zealand



Signature of Authorized Person:

**Frank Simmons:** CEO, Tekron International Ltd

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**Date of Issue:** 14<sup>th</sup> February 2019

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**Address:** Level 1, 47 The Esplanade  
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New Zealand

**Product Model Number:** TCG02-G

**Oscillator Option:** Rubidium

**Declaration:**

This declaration is issued under the sole responsibility of Tekron International Limited. The TCG02-G (with the Rubidium Oscillator option) is calculated to have Mean time between failures (MTBF) as follows:

**MTBF: 126,000 Hours | 14 Years**

The following Prediction Parameters were applied in full in accordance with the Telcordia SR-332 Issue 4 Prediction Standards:

<b>Environment</b>	Ground, Fixed, Uncontrolled (Limited)
<b>Unit Method</b>	I
<b>Device Method</b>	I-D
<b>Device Quality</b>	II (Commercial grade, Quality controlled)
<b>Operating Temperature</b>	45 Degrees Celsius (25° Ambient + 20° Internal differential)
<b>Electrical Stress</b>	50%

**Supplementary Information:**

<b>Computed Utilizing</b>	Ericsson ARPP, Version 12.1a, 2017
<b>Technical / Compliance File Held by:</b>	Tekron International Ltd Level 1, 47 The Esplanade, Petone, Lower Hutt, 5012, New Zealand



Signature of Authorized Person:

**Frank Simmons:** CEO, Tekron International Ltd

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