PRODUCT CHANGE NOTIFICATION

Title	Notification of change in IC used to manufacture LV77D, LV55D, and LV44D series
Keywords	Product Change Notification: IC change LVXXD series to next generation IC due to the end of life notice for the current IC.

Article:

Products Affected: Pletronics LV77D, LV55D, and LV44D

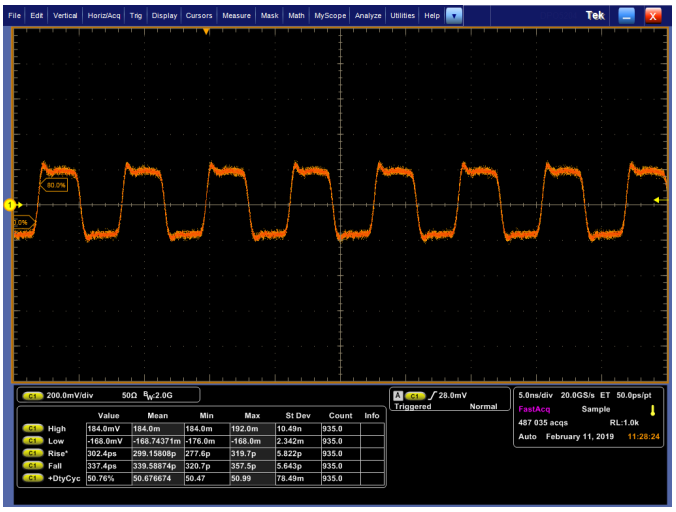
Description and Purpose of Change: IC change to next generation IC due to end of life notice of the current generation. Oscillator performance will remain unchanged. This notice is written in accordance with Pletronics ISO requirements.

- Form, fit and function equivalent
- Comparable rise and fall time
- Improved phase noise and jitter performance
- Improved spectral / EMI performance
- Reduced lead time
- See data below for comparison
- The current generation of the IC has been discontinued
- **Last time order date for the current generation 2021-08-30**
- **Last time delivery date for the current generation IC will be 2021-12-31**

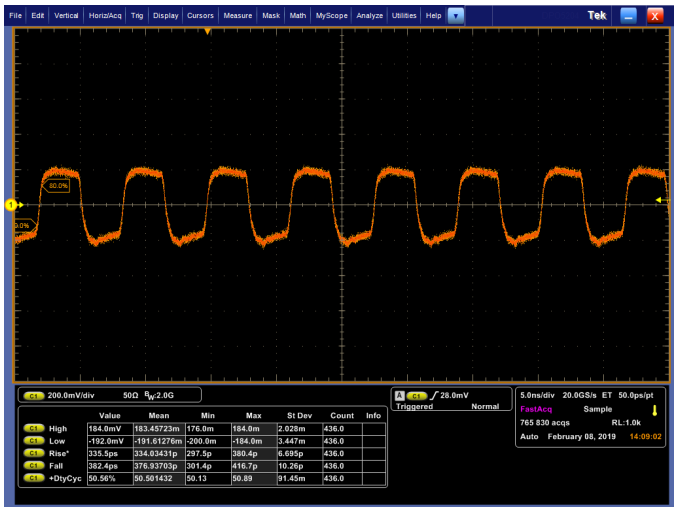
Pletronics Inc. certifies this device is in accordance with the RoHS (2015/65/EC) and WEEE (2002/96/EC) directives.

Date Created	2019-04-03, Updated 2021-01-29
Created By	Pletronics Engineering

LVDS 156.25MHz 2.5V Waveform



Current generation

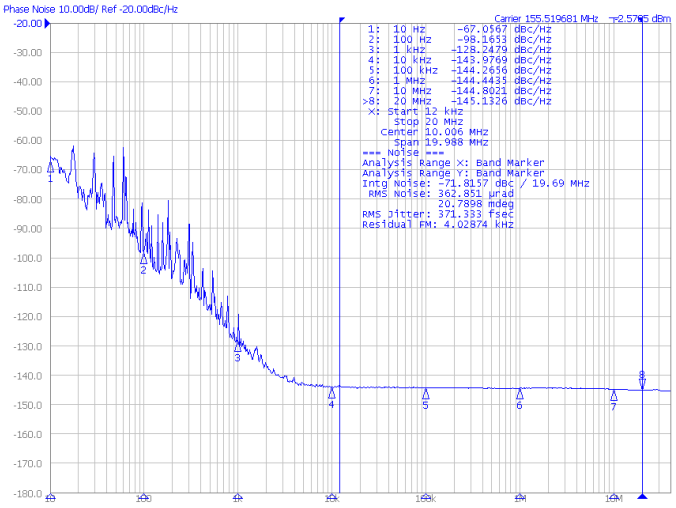


Next generation

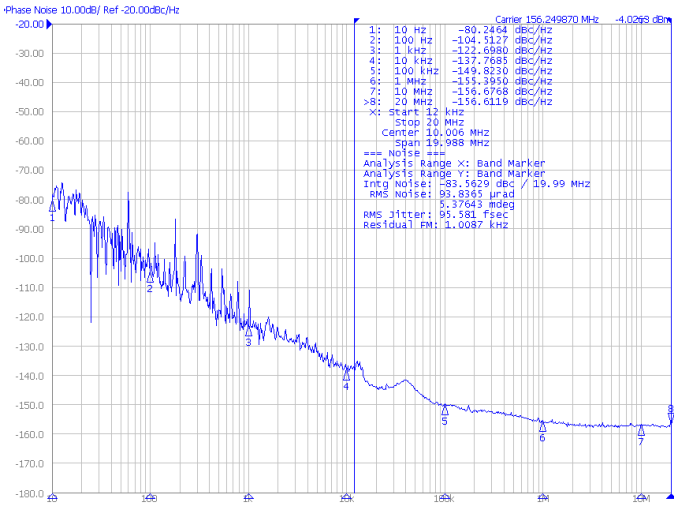
Rise Time	300 ps
Fall Time	340 ps

Rise Time	335 ps
Fall Time	377 ps

LVDS 156.25MHz 2.5V Phase Noise



Current generation

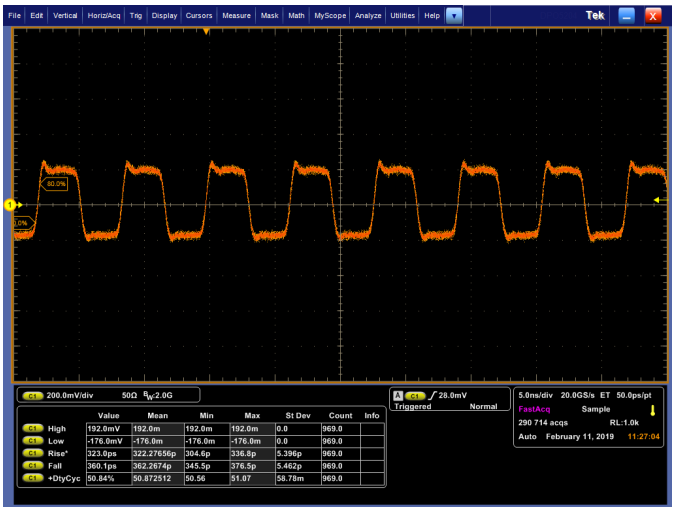


Next generation (Improved performance)

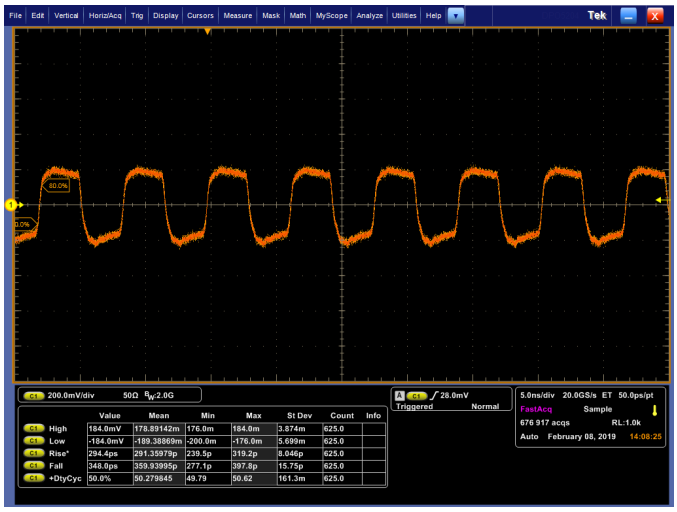
10 Hz	-67 dBc/Hz
100 Hz	-98 dBc/Hz
1 kHz	-128 dBc/Hz
10 kHz	-143 dBc/Hz
100 kHz	-144 dBc/Hz
1 MHz	-144 dBc/Hz
10 MHz	-144 dBc/Hz

10 Hz	-80 dBc/Hz
100 Hz	-104 dBc/Hz
1 kHz	-122 dBc/Hz
10 kHz	-137 dBc/Hz
100 kHz	-149 dBc/Hz
1 MHz	-155 dBc/Hz
10 MHz	-156 dBc/Hz

LVDS 156.25MHz 3.3V Waveform



Current generation

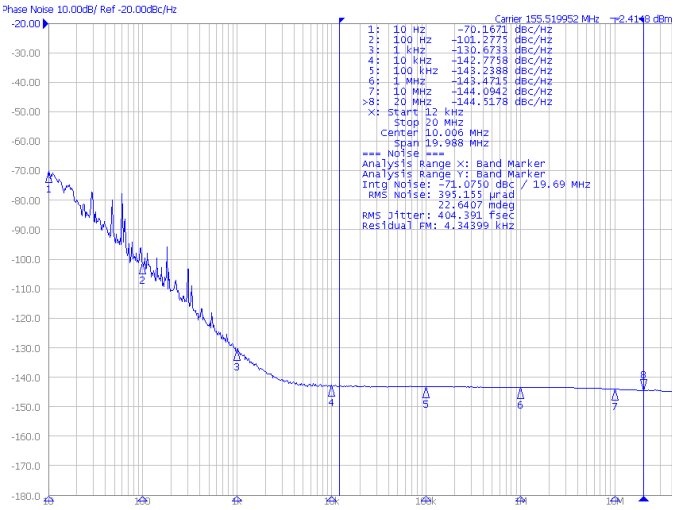


Next generation

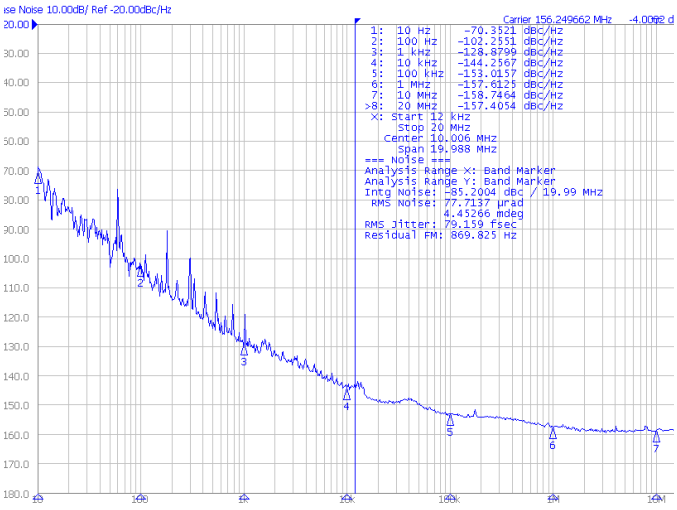
Rise Time	323 ps
Fall Time	363 ps

Rise Time	292 ps
Fall Time	360 ps

LVDS 156.25MHz 3.3V Phase Noise



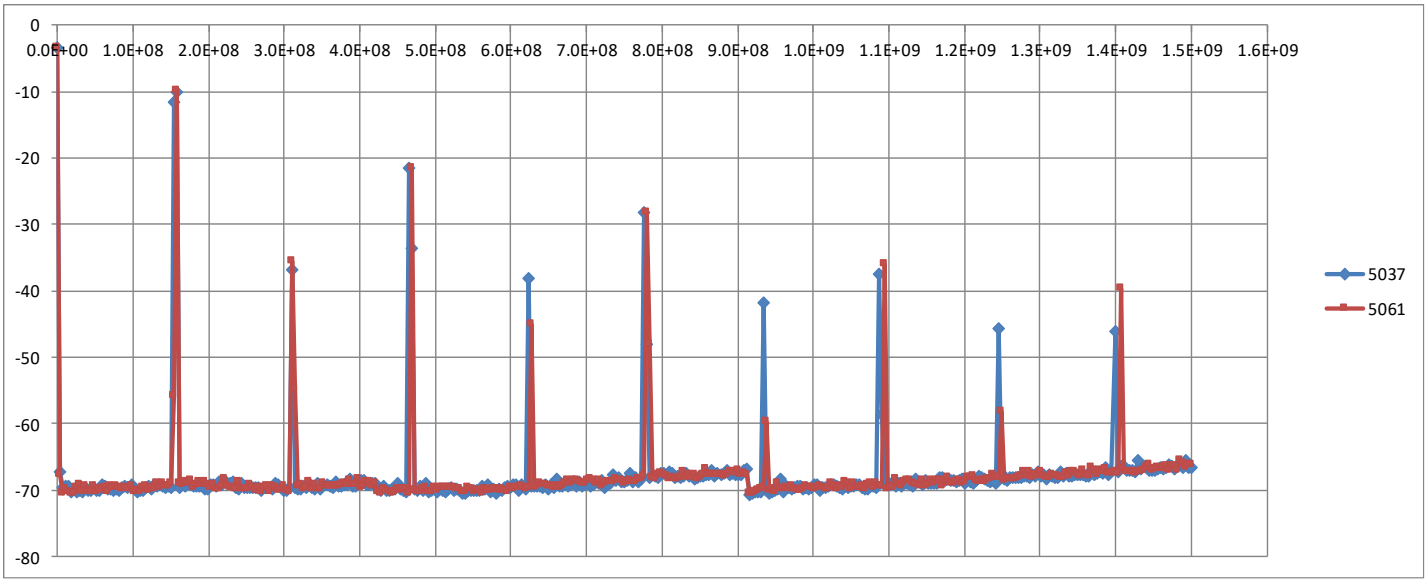
Current generation



Next generation (Improved performance)

10 Hz	-70 dBc/Hz
100 Hz	-101 dBc/Hz
1 kHz	-130 dBc/Hz
10 kHz	-142 dBc/Hz
100 kHz	-143 dBc/Hz
1 MHz	-143 dBc/Hz
10 MHz	-144 dBc/Hz

10 Hz	-70 dBc/Hz
100 Hz	-102 dBc/Hz
1 kHz	-128 dBc/Hz
10 kHz	-144 dBc/Hz
100 kHz	-153 dBc/Hz
1 MHz	-157 dBc/Hz
10 MHz	-158 dBc/Hz



Current generation

0	-3.490
1.58E+08	-10.000
3.11E+08	-36.800
4.65E+08	-21.600
6.23E+08	-38.000
7.76E+08	-28.200
9.34E+08	-41.900
1.09E+09	-37.600
1.25E+09	-45.600
1.4E+09	-46.200

Next generation (Improved performance)

0	-3.489
1.58E+08	-9.771
3.11E+08	-35.626
4.69E+08	-21.439
6.26E+08	-45.039
7.8E+08	-28.132
9.38E+08	-59.781
1.1E+09	-35.95
1.25E+09	-58.179
1.41E+09	-39.591