

Formula Used to calculate Transimpedance:

$$T_{RF_{DUT}} = \frac{H_{DUT}}{H_{ref}} * \frac{V_{DC_{ref}}}{V_{DC_{DUT}}} * \frac{T_{DC_{DUT}}}{T_{DC_{ref}}} * T_{RF_{ref}}$$

For ET-3040:

$$\begin{aligned} V_{DC_{ref}} &= 1.8V \\ V_{DC_{DUT}} &= 15mV \\ T_{DC_{DUT}} &= 50\Omega \\ T_{DC_{ref}} &= 10k\Omega \\ T_{RF_{ref}} &= 700\Omega \\ \frac{H_{DUT}}{H_{ref}} &= 10^{\frac{y}{20}} \end{aligned}$$

where 'y' is the y-value of the uncalibrated data

For ET-3010:

$$\begin{aligned} V_{DC_{ref}} &= 1.8V \\ V_{DC_{DUT}} &= 2.28mV \\ T_{DC_{DUT}} &= 50\Omega \\ T_{DC_{ref}} &= 10k\Omega \\ T_{RF_{ref}} &= 700\Omega \\ \frac{H_{DUT}}{H_{ref}} &= 10^{\frac{y}{20}} \end{aligned}$$

where 'y' is the y-value of the uncalibrated data