MAGNETIC HEAD FOR USE WITH
QIC-40-MB RECORDING FORMAT

(See important notices on the following page)
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1.0 The mechanical format of the heads:

1.1 QIC 106-1, Read/Write with trim erase, channel layout

1.2 QIC 106-2, Wide Write/narrow Read, channel layout.

1.3 QIC 106-3, Wide Write/narrow Read, channel layout.
2.00 Electrical format:

2.01 Recording density: 10,000 flux reversals per inch. MFM

2.02 Output read head @ 10,000 flux reversals per inch, and 25 inches per second tape speed: 1.5 mv minimum

2.03 Read head load: 5 kΩ and 15 pf.

2.04 Write saturation current (Isat) at 10,000 FRPI is defined as the current value at the first 95% of the maximum read output.

2.05 Write current (Iw) is set at 110% of the write saturation current value.

2.06 Resolution: Is determined as the ratio:

\[
\frac{E_o \text{ @ 10,000 FRPI}}{E_o \text{ @ 5,000 FRPI}} \times 100\%
\]

This shall be a minimum of 65%

2.07 Overwrite: When the longest wave length (5000 FRPI) is overwritten by the shortest wave length (10000 FRPI), a -30db attenuation minimum should be measured by a spectrum analyzer with a sampling band width of less than 5% overall system band width, which is determined by the shortest recorded wave length.

2.08 Peak Shift: See ANSI definition, should nominally be less than 15%.

2.09 Erase function (QIC-106-1): A constant in either leg shall overwrite a 5000 FRPI recorded signal, such that the remnant 5000 FRPI signal is -30db from the nominal output at 10,000 FRPI

2.10 Magnetic isolation to be less than 5%.

2.11 Off track recorded signal to be less than 5%, measured with the read track moved off the recorded track to the isolation shim.