**<Questions about AFE722>**

**-. TX path** (Resistor, RF Transformer & capacitor path path).

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| **Schematic of Alphean (Resistor path) - Default** |
|  | \*. Questions 1. Could you check this schematic if there is any problem?2. If there is no problem, which voltage level is VCM out? And what is the Compliance range?\*. Full scale current = 20mA\*. DAC\_C\_REF = **3.8V** |

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| **Schematic of Alphean (RF Transformer & capacitor path) - Optional** |
|  | \*. Questions1. Could you check this schematic if there is any problem?2. If there is no problem, which voltage level is VCM out? And what is the Compliance range?\*. Full scale current = 20mA\*. DAC\_C\_REF = **3.0V** |
| <When RF Transformer path is used below components will be mounted> -. R427, R428, R223, R251, R431, R432, R253, R252: 0ohm |
| < When Capacitor path is used below components will be mounted >-. R427, R428, R223, R251, R431, R432, R253, R252: 0ohm-. RF Transformer (T9 & T10): DNI-. Capacitor (C197, C198, C199, C201): 0.1uF-. R458, R459, R538, R539, R460, R461, R540, R541: 10Kohm |

**-. RX path** (using RF Transformer & not using RF Transformer)

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| **Schematic of Alphean** |
|  | \*. Questions1. Could you check this schematic if there is any problem? |
| <Mounted components when not using RF Transformer >-. This schematic |
| < Mounted components when using RF Transformer>-. R238, R239, R264, R273: DNI-. R234, R236, R240, R249: 0ohm |

**-. Transceiver spec:**

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|  **RX Parameter** | **Specification** | **Unit** |
| **Min.** | **Typ.** | **Max.** |
| Output common mode voltage(Common mode voltage is supplied by the transceiver) | 1.4 | 1.5 | 1.6 | V |
| Output differential peak-to-peak output voltage  |  |  | 2.5 | Vppd |

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| **TX Parameter** | **Specification** | **Unit** |
| **Min.** | **Typ.** | **Max.** |
| Input resistance  |  | >100 |  | Kohm |
| Input capacitance  |  | <10 |  | pF |
| Input common mode voltage5(Common voltage is supplied from external.) | 1.4 | 1.5 | 1.6 | V |
| Input differential peak-to-peak input voltage  |  | 1.00 | 2.00 | Vppd |