

## Request sheet for PPxx device

| #  | Subject   | Request                          | Unit                            |      |
|--|---|----------------------------------|---------------------------------|------|
| 0  | Type of pumping laser   |                                  | -                               |      |
| 1  | Type of conversion (SHG, SFG, DFG, OPO, OPG, OPA)                             |                                  | -                               |      |
| 2  | Type of Material (PPLN, PP-MgO:LN/SLT/SLN)                                    |                                  | -                               |      |
| 3  | Type of Device (Bulk, Waveguide:PE, Ridged)                                   |                                  | -                               |      |
| 4  | Type of QPM grating period (single, multiple, chirped, APLN, fan-out, others) |                                  | -                               |      |
| 5  | QPM grating period if any   |                                  | um                              |      |
| 6  | 1st input source  | <b>CW</b>                        | Wavelength                      | nm   |
|  |   |                                  | Pump power                      | mW   |
|  |   |                                  | Line width                      | nm   |
|  |   | <b>Pulse</b>                     | Wavelength                      | nm   |
|  |   |                                  | Peak power                      | W    |
|  |   |                                  | Average power                   | W    |
|  |   |                                  | Pulse energy                    | mJ   |
|  |   |                                  | Rep rate                        | Hz   |
|  |   |                                  | Pulse width                     | nsec |
|  |   |                                  | Pulse shape (Gaussian, Sech...) | -    |
| Transform-limited pulse  | Yes/No  |                                  |                                 |      |
| 7  | 2nd input souce if applied (SFG, DFG, OPA)                                    | <b>CW</b>                        | Wavelength                      | mW   |
|  |   |                                  | Pump power                      | nm   |
|  |   |                                  | Line width                      | nm   |
|  |   | <b>Pulse</b>                     | Wavelength                      | nm   |
|  |   |                                  | Peak power                      | W    |
|  |   |                                  | Average power                   | W    |
|  |   |                                  | Pulse energy                    | mJ   |
|  |   |                                  | Rep rate                        | Hz   |
|  |   |                                  | Pulse width                     | nsec |
|  |   |                                  | Pulse shape (Gaussian, Sech...) | -    |
| Transform-limited pulse  | Yes/No  |                                  |                                 |      |
| 8  | Expected output wavelength  |                                  | nm                              |      |
| 9  | Expected output power (minimum)   |                                  | mW                              |      |
| 10   | Output needs to be Transform-limited pulse                                    |                                  | Yes/No                          |      |
| 11   | Chip Dimension (L) x (W) x (T)  |                                  | mm^3                            |      |
| 12   | Phase-matching Temperature  |                                  | degree C                        |      |
| 13   | Focusing condition if any (form)  |                                  | -                               |      |
| 14   | Focusing condition if any (size in diameter)                                  |                                  | um                              |      |
| 15   | Polishing   | Input facet (S1) -flat or angle  | degree                          |      |
|  |   | Output facet (S2) -flat or angle | degree                          |      |
| 16   | AR coating if any   | Input facet (S1)                 | nm                              |      |
|  |   | Output facet (S2)                | nm                              |      |
| 17   | Waveguide Pigtailling - Fiber   | Input (SMF, PMF)                 | nm                              |      |
|  |   | Output (SMF or PMF)              | nm                              |      |
| Note: SMF-Single Mode Fiber; PMF-Polarization Maintained Fiber |   |                                  |                                 |      |
| 18   | waveguide Pigtailling - Connector   | Input (FC/APC, FC/PC, others)    | -                               |      |
|  |   | Output (FC/APC, FC/PC, others)   | -                               |      |
| 19   | Quantity  |                                  | unit                            |      |
| 20   | Oven & Temperature controller   |                                  | Set                             |      |
| 21   | Other request   |                                  | -                               |      |