

# Fabry-Perot Laser Diodes

updated weekly  
inventory subject to prior sales



The wavelength is measured under standard working conditions (20°C, maximum power). It can shift to a shorter wavelength at lower temperature and less current. The wavelength of diodes marked "not selected" is specified to the precision of the manufacturing process (typically +-5nm) and is not measured for the individual diode. For some diodes, higher power is available from DL pro HP. This higher power is listed in the Remarks. In DL pro HP the tuning and linewidth might be different, please inquire.

Diodes with a checkmark in the "4-laser check" column may have power restriction when used with the 4-laser upgrade. Please inquire.

The linewidth value refers either to the typical instantaneous linewidth of the DL pro or typical short term linewidth if followed by [5μs] (\*); if no value is specified, please contact TOPTICA sales for an estimation. Please inquire for more technical data on the frequency noise (e.g. frequency noise density).

All diodes operate in single transverse mode. They are shipped in industrial standard packages (5.6 mm or 9 mm can) unless mentioned otherwise.

(\*) Link to paper: "Linewidth-measurement"

<b>WL</b>	wavelength of free running diode	<b>Pd</b>	output power ex resonator with DLC DL pro or similar
<b>WLmin, WLmax</b>	shortest and longest wavelength	<b>4-laser-check</b>	possible restriction on power when used with the 4-laser upgrade of DLC pro
<b>P</b>	output power of free running diode	<b>MHFTR</b>	mode-hop free tuning range in DL pro
<b>Linewidth Δv</b>	typical linewidth (instantaneous or short term)		

WL nm	P mW	WLmin nm	WLmax nm	MHFTR GHz	Pd mW	Linewidth Δv in kHz	4-Laser Check	Article Number	Stock	Remark
371.0	20	369.5	371.8	10	16	850		LD-0375-0020-2	> 3	only available in DL pro HP; system only
373.0	70	372.2	373.2	10	13	330		LD-0375-0070-1	1	up to 35mW available after iso in DL pro HP; system only
374.0	70	373.2	374.2	10	13	330		LD-0375-0070-1	u.r.	up to 35mW available after iso in DL pro HP; system only
375.0	20			10	16	850		LD-0375-0020-2	2	only available in DL pro HP; system only not selected
375.0	70	374.2	375.2	10	13	330		LD-0375-0070-1	3	up to 35mW available after iso in DL pro HP; system only
376.0	70	375.2	376.2	10	13	330		LD-0375-0070-1	1	up to 35mW available after iso in DL pro HP; system only
377.0	70	376.2	377.2	10	13	330		LD-0375-0070-1	u.r.	up to 35mW available after iso in DL pro HP; system only
391.0	120	389	391.5	20	13	340		LD-0395-0120-2	2	up to 65mW available after iso in DL pro HP; system only
394.0	120	392	394.5	20	13	340		LD-0395-0120-2	2	up to 65mW available after iso in DL pro HP; system only
395.0	120	393	395.5	20	13	340		LD-0395-0120-2	1	up to 65mW available after iso in DL pro HP; system only
396.0	120	394	396.5	20	13	340		LD-0395-0120-2	> 3	up to 65mW available after iso in DL pro HP; system only
397.0	120	395	397.5	20	13	340		LD-0395-0120-2	u.r.	up to 65mW available after iso in DL pro HP; system only

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WL nm	P mW	WLmin nm	WLmax nm	MHFTR GHz	Pd mW	Linewidth $\Delta\nu$ in kHz	4-Laser Check	Article Number	Stock	Remark
398.0	120	396	398.5	20	13	340		LD-0395-0120-2	2	up to 65mW available after iso in DL pro HP; system only
399.0	120	397	399.5	20	13	340		LD-0395-0120-2	1	up to 65mW available after iso in DL pro HP; system only
400.0	120	398	400.5	20	13		√	LD-0405-0120-6	1	up to 50mW available after iso in DL pro HP; system only
401.0	120	399	401.5	20	13		√	LD-0405-0120-6	> 3	up to 50mW available after iso in DL pro HP; system only
401.0	300	398	400	20	13	250	√	LD-0399-0300-1	> 3	up to 110mW available after iso in DL pro HP; system only
402.0	120	400	402.5	20	13		√	LD-0405-0120-6	u.r.	up to 50mW available after iso in DL pro HP; system only
402.0	300	399	401	20	13		√	LD-0405-0250-1	u.r.	up to 110mW available after iso in DL pro HP; system only
403.0	120	401	403.5	20	13		√	LD-0405-0120-6	> 3	up to 50mW available after iso in DL pro HP; system only
403.0	300	400	402	20	13		√	LD-0405-0250-1	u.r.	up to 110mW available after iso in DL pro HP; system only
404.0	120	402	404.5	20	13		√	LD-0405-0120-6	1	up to 50mW available after iso in DL pro HP; system only
404.0	300	401	403	20	13		√	LD-0405-0250-1	u.r.	up to 110mW available after iso in DL pro HP; system only
405.0	120	403	405.5	20	13		√	LD-0405-0120-6	u.r.	up to 50mW available after iso in DL pro HP; system only
405.0	300	402	404	20	13		√	LD-0405-0250-1	2	up to 110mW available after iso in DL pro HP; system only
406.0	120	404	406.5	20	13		√	LD-0405-0120-6	> 3	up to 50mW available after iso in DL pro HP; system only
406.0	300	403	405	20	13		√	LD-0405-0250-1	1	up to 110mW available after iso in DL pro HP; system only
407.0	120	405	407.5	20	13		√	LD-0405-0120-6	> 3	up to 50mW available after iso in DL pro HP; system only
407.0	300	404	406	20	13		√	LD-0405-0250-1	u.r.	up to 110mW available after iso in DL pro HP; system only
408.0	120	406	408.5	20	13		√	LD-0405-0120-6	1	up to 50mW available after iso in DL pro HP; system only
408.0	300	405	407	20	13		√	LD-0405-0250-1	u.r.	up to 110mW available after iso in DL pro HP; system only
409.0	120	407	409.5	20	13		√	LD-0405-0120-6	u.r.	up to 50mW available after iso in DL pro HP; system only
409.0	300	406	408	20	13		√	LD-0405-0250-1	u.r.	up to 110mW available after iso in DL pro HP; system only
410.0	120	408	410.5	20	13		√	LD-0405-0120-6	1	up to 50mW available after iso in DL pro HP; system only
414.0	120	412	414.5	20	13			LD-0415-0120-2	1	up to 60mW available after iso in DL pro HP; system only
415.0	120	413	415.5	20	13			LD-0415-0120-2	u.r.	up to 60mW available after iso in DL pro HP; system only

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416.0	120	414	416.5	20	13			LD-0415-0120-2	u.r.	up to 60mW available after iso in DL pro HP; system only
417.0	120	415	417.5	20	13			LD-0415-0120-2	u.r.	up to 60mW available after iso in DL pro HP; system only
418.0	120	416	418.5	20	13			LD-0415-0120-2	u.r.	up to 60mW available after iso in DL pro HP; system only
419.0	120	417	419.5	20	13			LD-0415-0120-2	2	up to 60mW available after iso in DL pro HP; system only
420.0	120	418	420.5	20	13			LD-0415-0120-2	u.r.	up to 60mW available after iso in DL pro HP; system only
420.0	120	417.5	420.5	20	13			LD-0425-0120-2	u.r.	up to 70mW available after iso in DL pro HP; system only
421.0	120	418.5	421.5	20	13			LD-0425-0120-2	u.r.	up to 70mW available after iso in DL pro HP; system only
422.0	120	419.5	422.5	20	13			LD-0422-0120-1	2	up to 70mW available after iso in DL pro HP; system only
422.0	120	419.5	422.5	20	13			LD-0425-0120-2	> 3	up to 70mW available after iso in DL pro HP; system only
423.0	120	420.5	423.5	20	13			LD-0425-0120-2	> 3	up to 70mW available after iso in DL pro HP; system only
424.0	120	421.5	424.5	20	13			LD-0425-0120-2	3	up to 70mW available after iso in DL pro HP; system only
425.0	120	422.5	425.5	20	13			LD-0425-0120-2	> 3	up to 70mW available after iso in DL pro HP; system only
437.0	500	435	438	15	35	30	√	LD-0445-0500-1	2	up to 260mW available after iso in DL pro HP; system only
438.0	500	436	439	15	35	30	√	LD-0445-0500-1	u.r.	up to 260mW available after iso in DL pro HP; system only
439.0	500	437	440	15	35	30	√	LD-0445-0500-1	1	up to 260mW available after iso in DL pro HP; system only
440.0	500	438	441	15	35	30	√	LD-0445-0500-1	u.r.	up to 260mW available after iso in DL pro HP; system only
441.0	100	438.5	441.5	15	15			LD-0445-0100-2	1	up to 50mW available after iso in DL pro HP; system only
441.0	500	439	442	15	35	30	√	LD-0445-0500-1	u.r.	up to 260mW available after iso in DL pro HP; system only
442.0	100	439.5	442.5	15	15			LD-0445-0100-2	u.r.	up to 50mW available after iso in DL pro HP; system only
442.0	500	440	443	15	35	30	√	LD-0445-0500-1	u.r.	up to 260mW available after iso in DL pro HP; system only
443.0	100	440.5	443.5	15	15			LD-0445-0100-2	2	up to 50mW available after iso in DL pro HP; system only
443.0	500	441	444	15	35	30	√	LD-0445-0500-1	u.r.	up to 260mW available after iso in DL pro HP; system only
444.0	100	441.5	444.5	15	15			LD-0445-0100-2	u.r.	up to 50mW available after iso in DL pro HP; system only
444.0	500	442	445	15	35	30	√	LD-0445-0500-1	> 3	up to 260mW available after iso in DL pro HP; system only

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445.0	100	442.5	445.5	15	15			LD-0445-0100-2	u.r.	up to 50mW available after iso in DL pro HP; system only
445.0	500	443	446	15	35	30	√	LD-0445-0500-1	u.r.	up to 260mW available after iso in DL pro HP; system only
446.0	100	443.5	446.5	15	15			LD-0445-0100-2	u.r.	up to 50mW available after iso in DL pro HP; system only
446.0	500	444	447	15	35	30	√	LD-0445-0500-1	u.r.	up to 260mW available after iso in DL pro HP; system only
447.0	100	444.5	447.5	15	15			LD-0445-0100-2	3	up to 50mW available after iso in DL pro HP; system only
447.0	500	445	448	15	35	30	√	LD-0445-0500-1	u.r.	up to 260mW available after iso in DL pro HP; system only
448.0	100	445.5	448.5	15	15			LD-0445-0100-2	u.r.	up to 50mW available after iso in DL pro HP; system only
448.0	500	446	449	15	35	30	√	LD-0445-0500-1	u.r.	up to 260mW available after iso in DL pro HP; system only
449.0	500	447	450	15	35	30	√	LD-0445-0500-1	u.r.	up to 260mW available after iso in DL pro HP; system only
450.0	100	447.5	450.5	15	15			LD-0445-0100-2	u.r.	up to 50mW available after iso in DL pro HP; system only
450.0	500	448	451	15	35	30	√	LD-0445-0500-1	u.r.	up to 260mW available after iso in DL pro HP; system only
450.0	500	446.5	450.5	12	75	40	√	LD-0460-0500-1	2	up to 400mW available after iso in DL pro HP; system only
451.0	500	447.5	451.5	12	75	40	√	LD-0460-0500-1	u.r.	up to 400mW available after iso in DL pro HP; system only
452.0	500	448.5	452.5	12	75	40	√	LD-0460-0500-1	u.r.	up to 400mW available after iso in DL pro HP; system only
453.0	500	449.5	453.5	12	75	40	√	LD-0460-0500-1	u.r.	up to 400mW available after iso in DL pro HP; system only
454.0	500	450.5	454.5	12	75	40	√	LD-0460-0500-1	u.r.	up to 400mW available after iso in DL pro HP; system only
455.0	500	451.5	455.5	12	75	40	√	LD-0460-0500-1	u.r.	up to 400mW available after iso in DL pro HP; system only
456.0	500	452.5	456.5	12	75	40	√	LD-0460-0500-1	u.r.	up to 400mW available after iso in DL pro HP; system only
457.0	500	453.5	457.5	12	75	40	√	LD-0460-0500-1	u.r.	up to 400mW available after iso in DL pro HP; system only
458.0	500	454.5	458.5	12	75	40	√	LD-0460-0500-1	2	up to 400mW available after iso in DL pro HP; system only
459.0	500	455.5	459.5	12	75	40	√	LD-0460-0500-1	u.r.	up to 400mW available after iso in DL pro HP; system only
460.0	500	456.5	460.5	12	75	40	√	LD-0460-0500-1	u.r.	up to 400mW available after iso in DL pro HP; system only
460.0	500	456.5	460.5	12	75	40	√	LD-0461-0500-1	3	up to 400mW available after iso in DL pro HP; system only
461.0	500	457.5	461.5	12	75	40	√	LD-0460-0500-1	1	up to 400mW available after iso in DL pro HP; system only

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461.0	500	457.5	461.5	12	75	40	√	LD-0461-0500-1	u.r.	up to 400mW available after iso in DL pro HP; system only
462.0	500	458.5	462.5	12	75	40	√	LD-0460-0500-1	1	up to 400mW available after iso in DL pro HP; system only
463.0	500	459.5	463.5	12	75	40	√	LD-0460-0500-1	u.r.	up to 400mW available after iso in DL pro HP; system only
464.0	500	460.5	464.5	12	75	40	√	LD-0460-0500-1	1	up to 400mW available after iso in DL pro HP; system only
465.0	300	462	465.5	20	50	10	√	LD-0473-0300-1	u.r.	up to 185mW available after iso in DL pro HP; system only
466.0	300	463	466.5	20	50	10	√	LD-0473-0300-1	u.r.	up to 185mW available after iso in DL pro HP; system only
468.0	300	465	468.5	20	50	10	√	LD-0473-0300-1	1	up to 185mW available after iso in DL pro HP; system only
469.0	300	466	469.5	20	50	10	√	LD-0473-0300-1	u.r.	up to 185mW available after iso in DL pro HP; system only
470.0	300	467	470.5	20	50	10	√	LD-0473-0300-1	1	up to 185mW available after iso in DL pro HP; system only
471.0	300	468	471.5	20	50	10	√	LD-0473-0300-1	u.r.	up to 185mW available after iso in DL pro HP; system only
472.0	100	470	473	15	15			LD-0473-0080-2	u.r.	up to 40mW available after iso in DL pro HP; system only
472.0	300	469	472.5	20	50	10	√	LD-0473-0300-1	u.r.	up to 185mW available after iso in DL pro HP; system only
473.0	100	471	474	15	15			LD-0473-0080-2	u.r.	up to 40mW available after iso in DL pro HP; system only
473.0	300	470	473.5	20	50	10	√	LD-0473-0300-1	u.r.	up to 185mW available after iso in DL pro HP; system only
474.0	100	472	475	15	15			LD-0473-0080-2	u.r.	up to 40mW available after iso in DL pro HP; system only
474.0	300	471	474.5	20	50	10	√	LD-0473-0300-1	1	up to 185mW available after iso in DL pro HP; system only
475.0	100	473	476	15	15			LD-0473-0080-2	u.r.	up to 40mW available after iso in DL pro HP; system only
475.0	300	472	475.5	20	50	10	√	LD-0473-0300-1	u.r.	up to 185mW available after iso in DL pro HP; system only
476.0	100	474	477	15	15			LD-0473-0080-2	u.r.	up to 40mW available after iso in DL pro HP; system only
476.0	300	473	476.5	20	50	10	√	LD-0473-0300-1	u.r.	up to 185mW available after iso in DL pro HP; system only
477.0	300	474	477.5	20	50	10	√	LD-0473-0300-1	u.r.	up to 185mW available after iso in DL pro HP; system only
478.0	300	475	478.5	20	50	10	√	LD-0473-0300-1	u.r.	up to 185mW available after iso in DL pro HP; system only
479.0	300	476	479.5	20	50	10	√	LD-0473-0300-1	u.r.	up to 185mW available after iso in DL pro HP; system only
483.0	300	479	483.6	40	100	10	√	LD-0488-0300-1	2	up to 110mW available after iso in DL pro HP; system only

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484.0	60	480	486	20	30			LD-0488-0060-2	u.r.	up to 40mW available after iso in DL pro HP; system only
485.0	60	481	487	20	30			LD-0488-0060-2	u.r.	up to 40mW available after iso in DL pro HP; system only
485.0	200	480.5	486.5	20	40		√	LD-0488-0150-1	u.r.	up to 70mW available after iso in DL pro HP; system only
486.0	60	482	488	20	30			LD-0488-0060-2	u.r.	up to 40mW available after iso in DL pro HP; system only
486.0	200	481.5	487.5	20	40		√	LD-0488-0150-1	> 3	up to 70mW available after iso in DL pro HP; system only
487.0	60	483	489	20	30			LD-0488-0060-2	2	up to 40mW available after iso in DL pro HP; system only
487.0	200	482.5	488.5	20	40		√	LD-0488-0150-1	1	up to 70mW available after iso in DL pro HP; system only
488.0	60	484	490	20	30			LD-0488-0060-2	3	up to 40mW available after iso in DL pro HP; system only
488.0	200	483.5	489.5	20	40		√	LD-0488-0150-1	u.r.	up to 70mW available after iso in DL pro HP; system only
488.0	300	484	488.6	40	100	10	√	LD-0488-0300-1	1	up to 110mW available after iso in DL pro HP; system only
489.0	60	485	491	20	30			LD-0488-0060-2	2	up to 40mW available after iso in DL pro HP; system only
489.0	200	484.5	490.5	20	40		√	LD-0488-0150-1	u.r.	up to 70mW available after iso in DL pro HP; system only
490.0	60	486	492	20	30			LD-0488-0060-2	u.r.	up to 40mW available after iso in DL pro HP; system only
490.0	200	485.5	491.5	20	40		√	LD-0488-0150-1	1	up to 70mW available after iso in DL pro HP; system only
491.0	60	487	493	20	30			LD-0488-0060-2	2	up to 40mW available after iso in DL pro HP; system only
491.0	200	486.5	492.5	20	40		√	LD-0488-0150-1	2	up to 70mW available after iso in DL pro HP; system only
491.0	300	487	491.6	40	100	10	√	LD-0488-0300-1	2	up to 110mW available after iso in DL pro HP; system only
492.0	60	488	494	20	30			LD-0488-0060-2	u.r.	up to 40mW available after iso in DL pro HP; system only
492.0	200	487.5	493.5	20	40		√	LD-0488-0150-1	> 3	up to 70mW available after iso in DL pro HP; system only
493.0	80	492	494.8	30	35	100		LD-0495-0080-1	> 3	10GHz MHFTR outside 492.5-494.5nm
493.0	200	488.5	494.5	20	40		√	LD-0488-0150-1	u.r.	up to 70mW available after iso in DL pro HP; system only
493.0	300	489	493.6	40	100	10	√	LD-0488-0300-1	> 3	up to 110mW available after iso in DL pro HP; system only
494.0	80	493	495.8	30	35	100		LD-0495-0080-1	> 3	10GHz MHFTR outside 492.5-494.5nm
495.0	80	494	496.8	30	35	100		LD-0495-0080-1	> 3	10GHz MHFTR outside 492.5-494.5nm

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WL nm	P mW	WLmin nm	WLmax nm	MHFTR GHz	Pd mW	Linewidth $\Delta\nu$ in kHz	4-Laser Check	Article Number	Stock	Remark
496.0	80	495	497.8	30	35	100		LD-0495-0080-1	> 3	10GHz MHFTR outside 492.5-494.5nm
497.0	80	496	498.8	30	35	100		LD-0495-0080-1	u.r.	10GHz MHFTR outside 492.5-494.5nm
504.0	80	502	505	15	10			LD-0505-0080-1	u.r.	up to 45mW available after iso in DL pro HP; system only
505.0	80	503	506	15	10			LD-0505-0080-1	u.r.	up to 45mW available after iso in DL pro HP; system only
506.0	80	504	507	15	10			LD-0505-0080-1	u.r.	up to 45mW available after iso in DL pro HP; system only
507.0	80	505	508	15	10			LD-0505-0080-1	u.r.	up to 45mW available after iso in DL pro HP; system only
514.0	150	508	515	35	70	10		LD-0515-0150-3	u.r.	only available in DL pro HP; system only
515.0	110	512	517	25	70	10	√	LD-0520-0110-2	> 3	only available in DL pro HP; system only
515.0	150	509	516	35	70	10		LD-0515-0150-3	3	only available in DL pro HP; system only
516.0	110	513	518	25	70	10	√	LD-0520-0110-2	1	only available in DL pro HP; system only
516.0	150	510	517	35	70	10		LD-0515-0150-3	3	only available in DL pro HP; system only
517.0	110	514	519	25	70	10	√	LD-0520-0110-2	1	only available in DL pro HP; system only
517.0	150	511	518	35	70	10		LD-0515-0150-3	u.r.	only available in DL pro HP; system only
518.0	150	512	519	35	70	10		LD-0515-0150-3	u.r.	only available in DL pro HP; system only
519.0	150	513	520	35	70	10		LD-0515-0150-3	3	only available in DL pro HP; system only
520.0	150	514	521	35	70	10		LD-0515-0150-3	1	only available in DL pro HP; system only
631.0	100	628	634	15	50	200 [5 $\mu$ s]		LD-0633-0100-1	2	up to 55mW available after iso in DL pro HP
632.0	100	629	635	15	50	200 [5 $\mu$ s]		LD-0633-0100-1	u.r.	up to 55mW available after iso in DL pro HP
633.0	100	630	636	15	50	200 [5 $\mu$ s]		LD-0633-0100-1	1	up to 55mW available after iso in DL pro HP
634.0	100	631	637	15	50	200 [5 $\mu$ s]		LD-0633-0100-1	> 3	up to 55mW available after iso in DL pro HP
635.0	100	632	638	15	50	200 [5 $\mu$ s]		LD-0633-0100-1	u.r.	up to 55mW available after iso in DL pro HP
635.0	150	631	636	20	25	600 [5 $\mu$ s]		LD-0640-0170-1	u.r.	up to 45mW available after iso in DL pro HP
636.0	150	632	637	20	25	600 [5 $\mu$ s]		LD-0640-0170-1	1	up to 45mW available after iso in DL pro HP
637.0	150	633	638	20	25	600 [5 $\mu$ s]		LD-0640-0170-1	> 3	up to 45mW available after iso in DL pro HP

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u.r. : upon request

## Fabry-Perot Laser Diodes

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WL nm	P mW	WLmin nm	WLmax nm	MHFTR GHz	Pd mW	Linewidth $\Delta\nu$ in kHz	4-Laser Check	Article Number	Stock	Remark
638.0	150	634	639	20	25	600 [5 $\mu$ s]		LD-0640-0170-1	u.r.	up to 45mW available after iso in DL pro HP
639.0	150	635	640	20	25	600 [5 $\mu$ s]		LD-0640-0170-1	u.r.	up to 45mW available after iso in DL pro HP
640.0	150	636	641	20	25	600 [5 $\mu$ s]		LD-0640-0170-1	u.r.	up to 45mW available after iso in DL pro HP
641.0	150	637	642	20	25	600 [5 $\mu$ s]		LD-0640-0170-1	u.r.	up to 45mW available after iso in DL pro HP
647.0	150	643	648	15	80	100 [5 $\mu$ s]		LD-0650-0080-1	3	> 70mW below 646nm
648.0	150	644	649	15	80	100 [5 $\mu$ s]		LD-0650-0080-1	2	> 70mW below 646nm
689.0	200	684	690	20	80	20		LD-0690-0200-1	u.r.	only available in DL pro HP
690.0	200	685	691	20	80	20		LD-0690-0200-1	u.r.	only available in DL pro HP
691.0	200	686	692	20	80	20		LD-0690-0200-1	u.r.	only available in DL pro HP
692.0	200	687	693	20	80	20		LD-0690-0200-1	u.r.	only available in DL pro HP
693.0	200	688	694	20	80	20		LD-0690-0200-1	u.r.	only available in DL pro HP
750.0	30	748	751	20	30	7		LD-0750-0020-1	1	
785.0	120	781	789	20	120			LD-0780-0200-1	> 3	
786.0	120	782	790	20	120			LD-0780-0200-1	> 3	
787.0	120	783	791	20	120			LD-0780-0200-1	3	