◎ Features

- Frequency band width of up to 150 ~ 2000 kHz
- Response time of down to 0.05 ~ 1.5 μs
- Open loop design
- Coreless design enables the small dimensions
- Differential magnetic field detection design supports the common-mode field rejection.
- OCD (over current detection) function available
- Support supply voltage of 3.3 V or 5.0 V

频带宽度高达150~2000 kHz
响应时间可达 0.05~1.5 μs
开环设计
无芯设计实现了最小尺寸
不同的磁场检测设计支持共模场抑制
具有 OCD（过流检测）功能
支持 3.3 伏或 5.0 伏电源电压

◎ Application

- Solar energy
- Motor driver
- Uninterruptible power supply
- Switching Mode Power supply
- EV charger
- EV OBC
- EV DC/DC

太阳能
电机驱动器
不间断电源
开关模式电源
电动车充电器
车载充电机
电动车 直流-直流检测

◎ Coreless Solution / 无磁芯方案

Type	Partnumeber	Norminal Current	Supply Votage	Sensitivity	Frequency Bandwith -3dB	Step Response time	Clearance	X_TRange (%FS)	Open-loop	Closed-loop	Fluxgate
		I_pm (A)	Vcc (A)	Gain (mV/A' mA/A)	f_band (kHz)	t_r (us)	d_Cl (mm)	Acc (%FS)	Technology		
STK-LBS/S	STK-200LBS/S	±200	3.3	6	250	3	1	2	O		
STK-LBS/S2	STK-400LBS/S2	±400	5	5	250	3	1	3.5	O		
	STK-500LBS/S2	±500	5	4	250	3	1	3.5	O		
	STK-600LBS/S2	±600	5	3.33	250	3	1	3.5	O		
	STK-800LBS/S2	±800	5	2.5	250	3	1	3.5	O		
STK-LBS/6G	STK-100LBS/6G	±100	5	20	250	3	0.5	3.5	O		
	STK-200LBS/6G	±200	5	10	250	3	0.5	3.5	O		
	STK-300LBS/6G	±300	5	6.66	250	3	0.5	3.5	O		
	STK-400LBS/6G	±400	5	5	250	3	0.5	3.5	O		
	STK-500LBS/6G	±500	5	4	250	3	0.5	3.5	O		
	STK-600LBS/6G	±600	5	3.33	250	3	0.5	3.5	O		
	STK-700LBS/6G	±700	5	2.85	250	3	0.5	3.5	O		
	STK-800LBS/6G	±800	5	2.5	250	3	0.5	3.5	O		
	STK-900LBS/6G	±900	5	2.22	250	3	0.5	3.5	O		
	STK-1000LBS/6G	±1000	5	2	250	3	0.5	3.5	O		

STK-LBS/S

STK-LBS/S2

STK-LBS/6G

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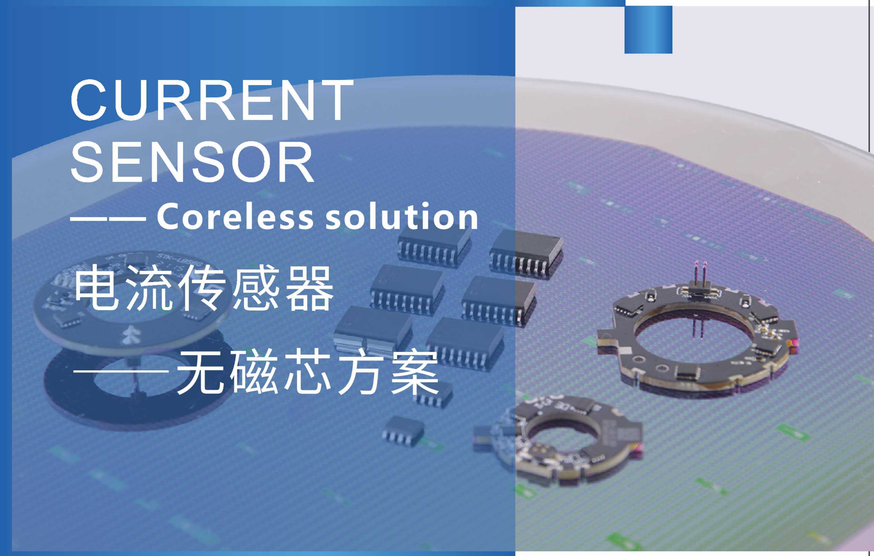
CURRENT SENSOR
—— Coreless solution
电流传感器
——无磁芯方案



Coreless Solution / 无磁芯方案

STK-616/AM

STK-616/AM3

STK-616/AM5

STK-616/AM8

STK-616/BML

STK-616/DML

STK-616/HML

STK-616/KML

STK-616/TML

STK-616/TMF

STK-616/TMF5

STK-616/TMM

STK-616/TMW

STK-616/TMWD

STK-616/ZML

STK-616/YML

Coreless Solution / 无磁芯方案

Type	Partnumber	Norminal Current	Supply Votage	Sensitivity	Frequency Bandwith -3dB	Step Response time	Clearance	OCD Function	Trigger Delay	Trigger Holding	X_TRange (%FS)	PRODUCT PACKAGE
		I_pn (A)	Vcc (V)	Gain (mV/A, mA/A)	f_band (kHz)	t_r (μs)	d_Cl (mm)	OCD	t_mask (μs)	t_hold (ms)	Acc (%FS)	
STK-616AM	STK-616A-25MLB5	±25	5	48	600	0.9	8.5	YES	0~3	0~4.5	3.5	SOIC10 Like 10.9 × 12.7 mm
	STK-616A-50MLB5	±50	5	24	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-60MLB5	±60	5	20	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-80MLB5	±80	5	15	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-100MLB5	±100	5	12	600	0.9	8.5	YES	0~3	0~4.5	3.5	
STK-616AM3	STK-616A-50ML3B5	±50	5	40	600	0.9	8.5	YES	0~3	0~4.5	3.5	SOIC10 Like 10.9 × 12.7 mm
	STK -616A-50ML3B3	±50	3.3	26.4	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-50ML3U5	50	5	80	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-66ML3B5	±66	5	30	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-75ML3B5	±75	5	26.6	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-80ML3B5	±80	5	25	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-90ML3B5	±90	5	22.2	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-95ML3U5	95	5	42.1	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-100ML3U5	100	5	20	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-100ML3B5	±100	5	40	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-120ML3B5	±120	5	16.5	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-150ML3B5	±150	5	13.3	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-180ML3B5	±180	5	11.1	600	0.9	8.5	YES	0~3	0~4.5	3.5	
STK-616AM5	STK-616A-25ML5B5	±25	5	80	600	0.9	8.5	YES	0~3	0~4.5	3.5	SOIC10 Like 10.9 × 12.7 mm
	STK-616A-50ML5B5	±50	5	40	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-60ML5B5	±60	5	33.3	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-80ML5B5	±80	5	25	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-100ML5B5	±100	5	20	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-120ML5B5	±120	5	15	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-200ML5B5	±200	5	10	600	0.9	8.5	YES	0~3	0~4.5	3.5	

Coreless Solution / 无磁芯方案

Type	Partnumber	Norminal Current	Supply Votage	Sensitivity	Frequency Bandwith -3dB	Step Response time	Clearance	OCD Function	Trigger Delay	Trigger Holding	X_TRange (%FS)	PRODUCT PACKAGE
		I_pn (A)	Vcc (V)	Gain (mV/A, mA/A)	f_band (kHz)	t_r (μs)	d_Cl (mm)	OCD	t_mask (μs)	t_hold (ms)	Acc (%FS)	
STK-616AM5	STK-616A-25ML5B3	±25	3.3	52.8	600	0.9	8.5	YES	0~3	0~4.5	3.5	SOIC10 Like 10.9 × 12.7 mm
	STK-616A-50ML5B3	±50	3.3	26.4	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-55ML5B3	±55	3.3	24	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-60ML5B3	±60	3.3	33.3	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-80ML5B3	±80	3.3	16.5	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-100ML5B3	±100	3.3	13.2	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-50ML5U5	50	5	80	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-80ML5U5	80	5	80	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-100ML5U3	100	3.3	26.4	600	0.9	8.5	YES	0~3	0~4.5	3.5	
STK-616AM8	STK-616A-50ML8B5	±50	5	40	600	0.9	8.5	YES	0~3	0~4.5	3.5	SOIC10 Like 10.9 × 12.7 mm
	STK-616A-80ML8B5	±50	5	25	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-90ML8B5	±90	5	22.2	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-100ML8B5	±100	5	20	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-133ML8B5	±133	5	15	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-50ML8B3	±50	3.3	26.4	600	0.9	8.5	YES	0~3	0~4.5	3.5	
	STK-616A-100ML8B3	±100	3.3	13.2	600	0.9	8.5	YES	0~3	0~4.5	3.5	
STK-616BML	STK-616B-6.5ML5B5	±6.5	5	200	600	0.9	8	YES	0~3	0~4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616B-13ML5B5	±13	5	100	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616B-15ML5B5	±15	5	90	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616B-28ML5B5	±28	5	48	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616B-56ML5B5	±56	5	24	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616B-65ML5B5	±65	5	20.5	600	0.9	8	YES	0~3	0~4.5	3.5	
STK-616DML	STK-616D-12ML3B3	±12.5	3.3	37	600	0.9	7.5	YES	0~3	0~4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616D-20ML3B3	±20	3.3	25	600	0.9	7.5	YES	0~3	0~4.5	3.5	
	STK-616D-25ML3B3	±25	3.3	18.5	600	0.9	7.5	YES	0~3	0~4.5	3.5	
	STK-616D-6ML5B5	±6	5	151	600	0.9	7.5	YES	0~3	0~4.5	3.5	
	STK-616D-12ML5B5	±12.5	5	56	600	0.9	7.5	YES	0~3	0~4.5	3.5	
	STK-616D-25ML5B5	±25	5	28	600	0.9	7.5	YES	0~3	0~4.5	3.5	
STK-616HML	STK-616H-10ML5B5	±10	5	80	600	0.9	8	YES	0~3	0~4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616H-15ML5B5	±15	5	53.33	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616H-20ML5B5	±20	5	40	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616H-30ML5B5	±30	5	26.67	600	0.9	8	YES	0~3	0~4.5	3.5	
STK-616KMF	STK-616K-20MFB3	±20	3.3	66	1500	0.2	7.5	YES	0~3	0~4.5	3	SOIC16W Like 10.3 × 10.3 mm
	STK-616K-30MFB5	±30	5	66.6	1500	0.2	7.5	YES	0~3	0~4.5	3	
	STK-616K-40MFB3	±40	3.3	33	1500	0.2	7.5	YES	0~3	0~4.5	3	
	STK-616K-65MFB3	±65	3.3	20.3	1500	0.2	7.5	YES	0~3	0~4.5	3	
	STK-616K-40MFB5	±40	5	50	1500	0.2	7.5	YES	0~3	0~4.5	3	
STK-616TML	STK-616T-20MLB5	±20	5	100	600	0.9	8	YES	0~3	0~4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616T-30MLB5	±30	5	66	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-40MLB5	±40	5	50	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-50MLB5	±50	5	40	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-65MLB5	±65	5	30.8	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-75MLB5	±75	5	26.7	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-100MLB5	±100	5	20	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-133MLB5	±133	5	15	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-10MLB3	±10	3.3	132	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-20MLB3	±20	3.3	66	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-30MLB3	±30	3.3	44	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-33MLB3	±33	3.3	39.6	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-40MLB3	±40	3.3	33	600	0.9	8	YES	0~3	0~4.5	3.5	
	STK-616T-65MLB3	±65	3.3	20.3	600	0.9	8	YES	0~3	0~4.5	3.5	
STK-616TMF	STK-616T-10MFB5	±10	5	200	1500	0.6	8	YES	0~3	0~4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616T-20MFB5	±20	5	100	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-40MFB5	±40	5	50	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-50MFB5	±50	5	40	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-65MFB5	±65	5	30.8	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-10MFB3	±10	3.3	132	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-20MFB3	±20	3.3	66	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-30MFB3	±30	3.3	44	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-40MFB3	±40	3.3	33	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-50MFB3	±50	3.3	26.4	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-65MFB3	±65	3.3	20.3	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-66MFB3	±66	3.3	20	1500	0.6	8	YES	0~3	0~4.5	3.5	

Coreless Solution / 无磁芯方案

Type	Partnumber	Norminal Current	Supply Votage	Sensitivity	Frequency Bandwith -3dB	Step Response time	Clearance	OCD Function	Trigger Delay	Trigger Holding	X_TRange (%FS)	PRODUCT PACKAGE
		I_pn (A)	Vcc (V)	Gain (mV/A, mA/A)	f_band (kHz)	t_r (μs)	d_Cl (mm)	OCD	t_mask (μs)	t_hold (ms)	Acc (%FS)	
STK-616TMF5	STK-616T-10MFB5	±10	5	200	1500	0.6	8	YES	0~3	0~4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616T-20MFB5	±20	5	100	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-40MFB5	±40	5	50	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-50MFB5	±50	5	40	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-65MFB5	±65	5	30.8	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-100MFB5	±100	5	20	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-133MFB5	±133	5	15	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-10MFB3	±10	3.3	132	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-20MFB3	±20	3.3	66	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-40MFB3	±40	3.3	33	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-50MFB3	±50	3.3	26.4	1500	0.6	8	YES	0~3	0~4.5	3.5	
	STK-616T-65MFB3	±65	3.3	20.3	1500	0.6	8	YES	0~3	0~4.5	3.5	
STK-616TMM	STK-616T-40MWB5	±40	5	50	600	0.2	8	YES	0~3	0~4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616T-65MWB5	±65	5	30.8	600	0.2	8	YES	0~3	0~4.5	3.5	
	STK-616T-20MWB3	±20	3.3	66	600	0.2	8	YES	0~3	0~4.5	3.5	
	STK-616T-40MWB3	±40	3.3	33	600	0.2	8	YES	0~3	0~4.5	3.5	
	STK-616T-65MWB3	±65	3.3	20.3	600	0.2	8	YES	0~3	0~4.5	3.5	
STK-616TMW	STK-616T-20MWB5	±20	5	100	600	0.2	8	YES	0~3	0~4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
		±2A	5	1000	600	0.2	8	YES	0~3	0~4.5	3.5	
	STK-616T-40MWB5	±40	5	50	600	0.2	8	YES	0~3	0~4.5	3.5	
		±4A	5	500	600	0.2	8	YES	0~3	0~4.5	3.5	
	STK-616T-65MWB5	±65	5	30.8	600	0.2	8	YES	0~3	0~4.5	3.5	
		±6.5	5	308	600	0.2	8	YES	0~3	0~4.5	3.5	
	STK-616T-20MWB3	±20	3.3	66	600	0.2	8	YES	0~3	0~4.5	3.5	
		±2	3.3	660	600	0.2	8	YES	0~3	0~4.5	3.5	
	STK-616T-40MWB3	±40	3.3	33	600	0.2	8	YES	0~3	0~4.5	3.5	
		±4	3.3	330	600	0.2	8	YES	0~3	0~4.5	3.5	
	STK-616T-65MWB3	±65	3.3	20.3	600	0.2	8	YES	0~3	0~4.5	3.5	
		±6.5	3.3	203	600	0.2	8	YES	0~3	0~4.5	3.5	
STK-616TMWD	STK-616T-20MWDB5	±20	5	40	600	0.2	8	NO	N/A	N/A	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616T-40MWDB5	±40	5	20	600	0.2	8	NO	N/A	N/A	3.5	
	STK-616T-65MWDB5	±65	5	13.3	600	0.2	8	NO	N/A	N/A	3.5	
	STK-616T-33MWDB3	±33	3.3	39.6	600	0.2	8	NO	N/A	N/A	3.5	
	STK-616T-20MWDB3	±20	3.3	66	600	0.2	8	NO	N/A	N/A	3.5	
	STK-616T-40MWDB3	±40	3.3	33	600	0.2	8	NO	N/A	N/A	3.5	
	STK-616T-65MWDB3	±65	3.3	20.3	600	0.2	8	NO	N/A	N/A	3.5	
STK-616ZMF	STK-616Z-10MFU5	10	5	400	2000	0.05	4.2	NO	N/A	N/A	3.5	SOIC8 Like 4.9 × 6.0 mm
	STK-616Z-10MFB5	±10	5	200	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-10MFB3	±10	3.3	132	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-20MFB5	±20	5	100	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-20MFB3	±20	3.3	66	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-25MFB3	±25	3.3	52.8	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-25MFB5	±25	5	80	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-30MFB3	±30	3.3	44	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-30MFB5	±30	5	66.7	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-30MFU5	30	5	133.3	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-30MFU3	30	3.3	88	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-40MFB3	±40	3.3	33	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-40MFB5	±40	5	50	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-50MFB5	±50	5	40	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-50MFU3	50	3.3	52.8	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-50MFB3	±50	3.3	26.4	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-50MFU5	50	5	88	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-65MFB3	±65	3.3	30	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-65MFB5	±65	5	30	2000	0.05	4.2	NO	N/A	N/A	3.5	
STK-616YML	STK-616Y-20MLB5	±20	5	100	400	1	2.1	NO	N/A	N/A	3.5	SOIC8 Like 4.9 × 6.0 mm
	STK-616Y-25MLB5	±25	5	80	400	1	2.1	NO	N/A	N/A	3.5	
	STK-616Y-30MLB5	±30	5	66.7	400	1	2.1	NO	N/A	N/A	3.5	
	STK-616Y-40MLB5	±40	5	50	400	1	2.1	NO	N/A	N/A	3.5	
	STK-616Y-50MLB5	±50	5	40	400	1	2.1	NO	N/A	N/A	3.5	
	STK-616Y-50MLB3	±50	3.3	26.4	400	1	2.1	NO	N/A	N/A	3.5	