

### ◎ Features

- Frequency bandwidth 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	Partnumber	Nominal Current		Supply Voltage		Sensitivity		Frequency Bandwidth -3dB	Step Response time	Clearance	X_TRange (%FS)
		I <sub>pm</sub> (A)	V <sub>cc</sub> (A)	Gain (mV/A <sup>2</sup> mA/A)	f <sub>band</sub> (kHz)	t <sub>r</sub> (us)	d <sub>CI</sub> (mm)				
STK-LBS/S	STK-200LBS/S	±200	3.3	6	250	3	1	2			
	STK-400LBS/S2	±400	5	5	250	3	1	3.5			
STK-LBS/S2	STK-500LBS/S2	±500	5	4	250	3	1	3.5			
	STK-600LBS/S2	±600	5	3.33	250	3	1	3.5			
	STK-800LBS/S2	±800	5	2.5	250	3	1	3.5			
	STK-1000LBS/S2	±1000	5	2	250	3	1	3.5			
	STK-1500LBS/S2	±1500	5	1.33	250	3	1	3.5			
	STK-200LBS/6G	±200	5	10	250	3	0.5	3.5			
STK-LBS/6G	STK-300LBS/6G	±300	5	6.66	250	3	0.5	3.5			
	STK-400LBS/6G	±400	5	5	250	3	0.5	3.5			
	STK-500LBS/6G	±500	5	4	250	3	0.5	3.5			
	STK-600LBS/6G	±600	5	3.33	250	3	0.5	3.5			
	STK-700LBS/6G	±700	5	2.85	250	3	0.5	3.5			
	STK-800LBS/6G	±800	5	2.5	250	3	0.5	3.5			
	STK-900LBS/6G	±900	5	2.22	250	3	0.5	3.5			
	STK-1000LBS/6G	±1000	5	2	250	3	0.5	3.5			



STK-LBS/S



STK-LBS/S2



STK-LBS/6G

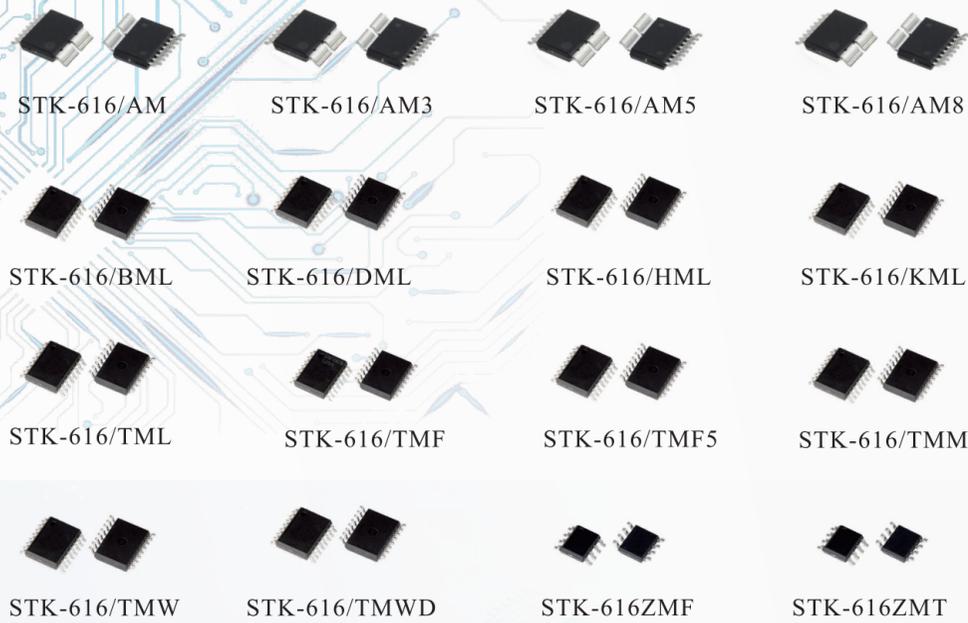
CURRENT SENSOR  
 — Coreless solution

电流传感器  
 — 无磁芯方案



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◎ Coreless Solution / 无磁芯方案



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Type	Partnumber	Normal Current	Supply Voltage	Sensitivity	Frequency Bandwidth	Step Response time	Clearance	OCF Function	Trigger Delay	Trigger Holding	X_Trangle	PRODUCT PACKAGE
		I <sub>pn</sub> (A)	V <sub>cc</sub> (V)	Gain (mV/A, mA/A)	f <sub>band</sub> (kHz)	t <sub>r</sub> (μs)	d <sub>Cl</sub> (mm)	OCF	t <sub>mask</sub> (μs)	t <sub>hold</sub> (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-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	

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Type	Partnumber	Normal Current	Supply Voltage	Sensitivity	Frequency Bandwidth	Step Response time	Clearance	OCF Function	Trigger Delay	Trigger Holding	X_Trangle	PRODUCT PACKAGE
		I <sub>pn</sub> (A)	V <sub>cc</sub> (V)	Gain (mV/A, mA/A)	f <sub>band</sub> (kHz)	t <sub>r</sub> (μs)	d <sub>Cl</sub> (mm)	OCF	t <sub>mask</sub> (μs)	t <sub>hold</sub> (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-616A-50ML8B5	±50	5	40	600	0.9	8.5	YES	0-3	0-4.5	3.5	
STK-616AM8	STK-616A-80ML8B5	±50	5	25	600	0.9	8.5	YES	0-3	0-4.5	3.5	SOIC10 Like 10.9 × 12.7 mm
	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-616BML	STK-616B-6.5MLB5	±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-13MLB5	±13	5	100	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616B-15MLB5	±15	5	90	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616B-28MLB5	±28	5	48	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616B-56MLB5	±56	5	24	600	0.9	8	YES	0-3	0-4.5	3.5	
STK-616DML	STK-616D-12MLB3	±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-20MLB3	±20	3.3	25	600	0.9	7.5	YES	0-3	0-4.5	3.5	
	STK-616D-25MLB3	±25	3.3	18.5	600	0.9	7.5	YES	0-3	0-4.5	3.5	
	STK-616D-6MLB5	±6	5	151	600	0.9	7.5	YES	0-3	0-4.5	3.5	
	STK-616D-12MLB5	±12.5	5	56	600	0.9	7.5	YES	0-3	0-4.5	3.5	
STK-616HML	STK-616H-10MLB5	±10	5	80	600	0.9	8	YES	0-3	0-4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616H-15MLB5	±15	5	53.33	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616H-20MLB5	±20	5	40	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616H-30MLB5	±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	
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-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	

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		I <sub>pn</sub> (A)	V <sub>cc</sub> (V)	Gain (mV/A, mA/A)	f <sub>band</sub> (kHz)	t <sub>r</sub> (μs)	d <sub>Cl</sub> (mm)	OCF	t <sub>mask</sub> (μs)	t <sub>hold</sub> (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-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
	STK-616T-40MWB5	±40	5	50	600	0.2	8	YES	0-3	0-4.5	3.5	