

Features:

- Open Loop type
- Printed circuit board mounting
- Unipolar power supply
- Industrial temperature range
- Sulfur-proof as standard
- Insulated plastic case according to UL94V0

Advantage:

- Excellent accuracy and linearity
- Wide nominal current range
- Low temperature drift
- Wide frequency bandwidth
- No insertion loss
- High Immunity To External Interference
- Optimised response time
- Current overload capability

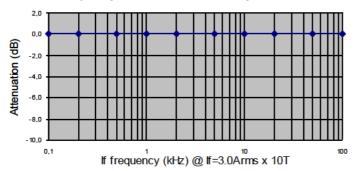
 $T_A = 25^{\circ}C$, $V_{CC} = +5V$, $R_1 = 10k\Omega$

	Parameters Symbol L32P050S05FS L32P100S05FS L32P150S05FS L32P200S05FS L32P300S05FS L32P400S05								
Parameters	Symbol	L32P050S05FS	L32P100S05FS	L32P150S05FS	L32P200S05FS	L32P300S05FS	L32P400S05FS		
Rated current	I _f	50A	100A	150A	200A	300A	400A		
Maximum Current	I _{fmax}	±150A	±300A	±450A	±600A	≥±600AT	≥±600AT		
Primary conductor			Aperture						
Output Voltage	V _{OUT}			V _{REF} +0.625V :	± 0.015∨ @ ± I _f				
Offset Voltage	V _{OE}			V _{REF} ± 0.025	5∨ @ I _f = 0A				
Reference voltage	V _{REF}			+2.5V ±	0.020V				
Output Linearity ¹	٤L			≤±0.5% @	0A, 0.5 I _f , I _f				
Power Supply	V _{CC}		+ 5V ±5 %						
Current Consumption	Ic		≤ 15mA						
Response Time ²	t _r	≤ 5µs (@ di/dt = F.S. / µs)							
Output Temperature Characteristic ¹	TCV _{OUT}	≤ ± 1.5mV/°C							
Offset Temperature Characteristic	TCV _{OE}	≤ ± 1.0 mV/	≤ ± 1.0 mV/°C @ I_f = 0A ≤ ± 0.5 mV/°C @ I_f = 0A ≤ ± 0.3 mV/°C @ I_f = 0A						
Reference Temperature Characteristic	TCV _{REF}	≤±0.012% / °C							
Hysteresis error	V _{OH}	$\leq 7.5 \text{mV } (0 \text{A} \Leftrightarrow I_f)$ $\leq 5.0 \text{mV } (0 \text{A} \Leftrightarrow I_f)$ $\leq 2.5 \text{mV } (0 \text{A} \Leftrightarrow I_f)$							
Withstand ∀oltage	V_d	AC2500V for 1minute (sensing current 0.5mA), inside of aperture ⇔ terminal							
Insulation Resistance	R _{IS}	> 500MΩ (500∨ DC), inside of aperture ⇔ terminal							
Frequency Bandwidth ³	f	DC 50kHz							
Operating Temperature	T _A	-40°C∼+85°C							
Storage Temperature	Ts	-40°C~+85°C							

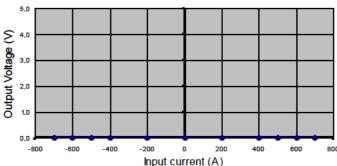
¹ Without offset — ² Time between 10% input current full scale and 90% of sensor output full scale — ³ Small signal only to avoid excessive heating of magnetic core

Electrical Performances





Saturation Characteristic data not yet available





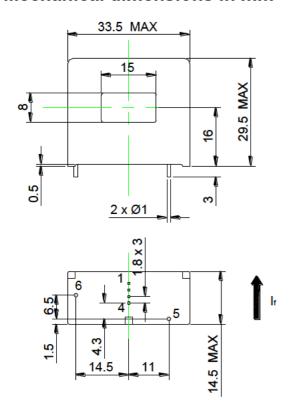


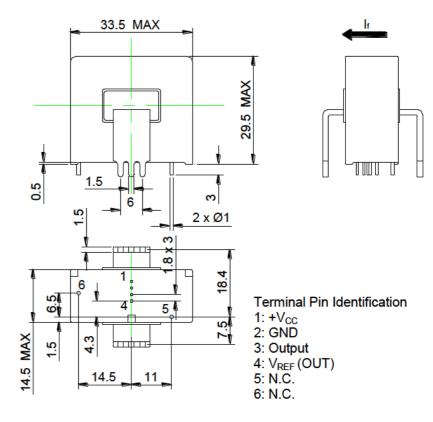




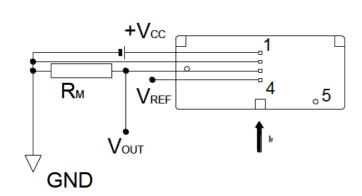


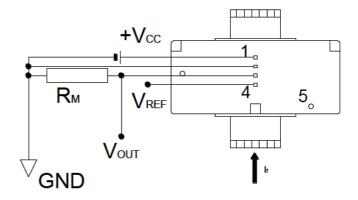
Mechanical dimensions in mm





Electrical connection diagram





Package & Weight Information

Weight	Pcs/box	Pcs/carton	Pcs/pallet	











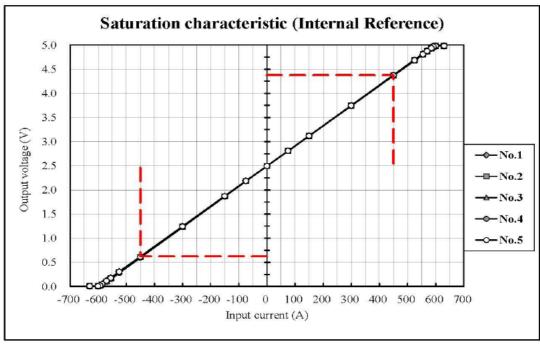
Saturation Characteristic

L32P150S05FS

Saturation characteristic

at Vcc=+5V, RL=10kΩ, Ta=+25°C

		Theoretical value				
Input current (A)	No.1	No.2	No.3	No.4	No.5	(V)
630.0	4.981	4.980	4.981	4.982	4.982	5.000
,600.0	4.981	4.980	4.981	4.981	4.981	4.995
592.5	4.961	4.971	4.959	4.980	4.966	4.964
585.0	4.930	4.940	4.928	4.949	4.935	4.933
570.0	4.868	4.877	4.866	4.887	4.872	4.870
555.0	4.806	4.815	4.804	4.824	4.810	4.808
525.0	4.682	4.690	4.679	4.698	4.685	4.683
450.0	4.370	4.376	4.367	4.383	4.373	4.370
300.0	3.745	3.748	3.742	3.752	3.747	3.745
150.0	3.120	3.119	3.116	3.121	3.121	3.120
75.0	2.808	2.806	2.804	2.806	2.808	2.808
0.0	2.497	2.493	2.493	2.491	2.496	2.495
-75.0	2.187	2.182	2.184	2.179	2.186	2.183
-150.0	1.874	1.867	1.870	1.863	1.872	1.870
-300.0	1.248	1.238	1.244	1.230	1.244	1.245
-450.0	0.622	0.609	0.617	0.597	0.616	0.620
-525.0	0.310	0.295	0.304	0.281	0.303	0.308
-555.0	0.185	0.169	0.179	0.155	0.178	0.183
-570.0	0.122	0.106	0.117	0.092	0.115	0.120
-585.0	0.060	0.044	0.055	0.029	0.052	0.058
-592.5	0.029	0.013	0.024	0.008	0.021	0.026
-600.0	0.008	0.008	0.008	0.008	0.008	0.000
-630.0	0.007	0.008	0.008	0.008	0.008	0.000













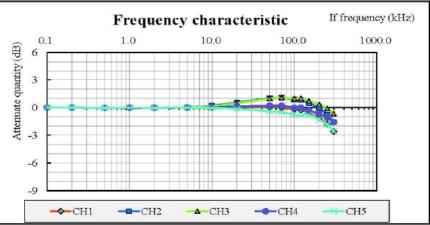
Frequency Characteristics

L32P150S05FS P.4
Frequency characteristic (Reference)

1	Ú.		- 1		7.	
at Dat	antad numant I	F- 2 2	*12AT	Man-15W	DI -10k0	To-125%

at Detected current II= 3.2*12A1, Vcc=+5V, RL=10kΩ, If trequency Output voltage - Offset voltage (mVrms)						
(kHz)	CHI	CH2	CH3	CH4	CH5	Remarks
0.1	165	165	168	166	166	
0.2	165	165	168	166	166	
0.5	164	164	167	165	165	
1.0	165	164	168	166	166	
2.0	165	164	168	166	165	
5.0	165	166	169	166	166	
10.0	165	168	171	166	165	
20.0	166	176	178	168	163	
50.0	165	185	188	170	158	
70.0	165	186	191	170	157	
100.0	161	182	188	166	152	
120.0	160	181	189	166	151	
150.0	154	174	183	160	151	
200.0	145	163	175	154	143	
250.0	134	151	166	147	134	
300.0	122	137	156	139	124	

If frequency	(
(kHz)	CH1	CH2	CH3	CH4	CH5	Remarks
0.1	0.000	0.000	0.000	0,000	0.000	
0.2	-0.011	-0.003	-0.022	-0.011	-0.016	
0.5	-0.054	-0.054	-0.054	-0.058	-0.052	
1.0	-0.029	-0.029	-0.028	-0.038	-0.029	
2.0	-0.034	-0.033	-0.031	-0.044	-0.039	
5.0	-0.005	0.031	0.009	-0.026	-0.029	
10.0	0.003	0.170	0.111	-0.008	-0.071	
20.0	0.030	0.541	0.457	0.107	-0.153	
50.0	0.002	0.995	0.960	0.189	-0.422	
70.0	-0.026	1.040	1.067	0.180	-0.505	
100.0	-0.229	0.853	0.954	-0.037	-0.793	
120.0	-0.287	0.822	0.986	-0.021	-0.838	
150.0	-0.621	0.456	0.702	-0.340	-0.833	
200.0	-1.155	-0.090	0.327	-0.693	-1.333	
250.0	-1.805	-0.768	-0.111	-1.106	-1.876	
300.0	-2.623	-1.593	-0.667	-1.594	-2.548	











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