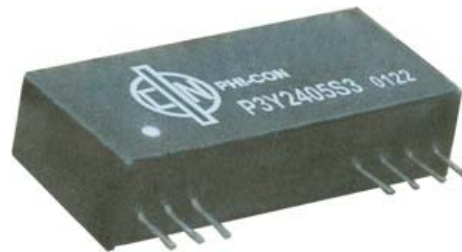


3W DC-DC Converter P3Y-Series



- 12 Pin SIL
- Up to 3000 V_{DC} isolation
- Regulated
- Continuous short circuit protection
- MTBF > 1.5MHours



Model selection guide

Typ	Input voltage range [V _{DC}]	Output voltage [V _{DC}]	Output current [mA]	Efficiency typ. [%]	Capacity load [μF]
P3Y053R3S3	4.5...5.5	3.3	900	65	470
P3Y053R6S3	4.5...5.5	3.6	830	65	470
P3Y0505S3	4.5...5.5	5.0	600	67	470
P3Y057R2S3	4.5...5.5	7.2	410	67	470
P3Y0509S3	4.5...5.5	9.0	333	69	470
P3Y0512S3	4.5...5.5	12.0	250	72	470
P3Y0515S3	4.5...5.5	15.0	200	72	470
P3Y0518S3	4.5...5.5	18.0	165	72	470
P3Y0524S3	4.5...5.5	24.0	125	70	470
P3Y123R3S3	10.8...13.2	3.3	900	65	470
P3Y123R6S3	10.8...13.2	3.6	830	65	470
P3Y1205S3	10.8...13.2	5.0	600	67	470
P3Y127R2S3	10.8...13.2	7.2	410	67	470
P3Y1209S3	10.8...13.2	9.0	333	67	470
P3Y1212S3	10.8...13.2	12.0	250	72	470
P3Y1215S3	10.8...13.2	15.0	200	72	470
P3Y1218S3	10.8...13.2	18.0	165	72	470
P3Y1224S3	10.8...13.2	24.0	125	70	470
P3Y243R3S3	21.6...26.4	3.3	900	65	470
P3Y2405S3	21.6...26.4	5.0	600	65	470
P3Y247R2S3	21.6...26.4	7.2	410	67	470
P3Y2409S3	21.6...26.4	9.0	333	65	470
P3Y2412S3	21.6...26.4	12.0	250	70	470
P3Y2415S3	21.6...26.4	15.0	200	70	470
P3Y2418S3	21.6...26.4	18.0	165	72	470
P3Y2424S3	21.6...26.4	24.0	125	72	470

Output voltage range reach from 3.3V to 24V
 Suffix: "H" for 3kV isolation voltage

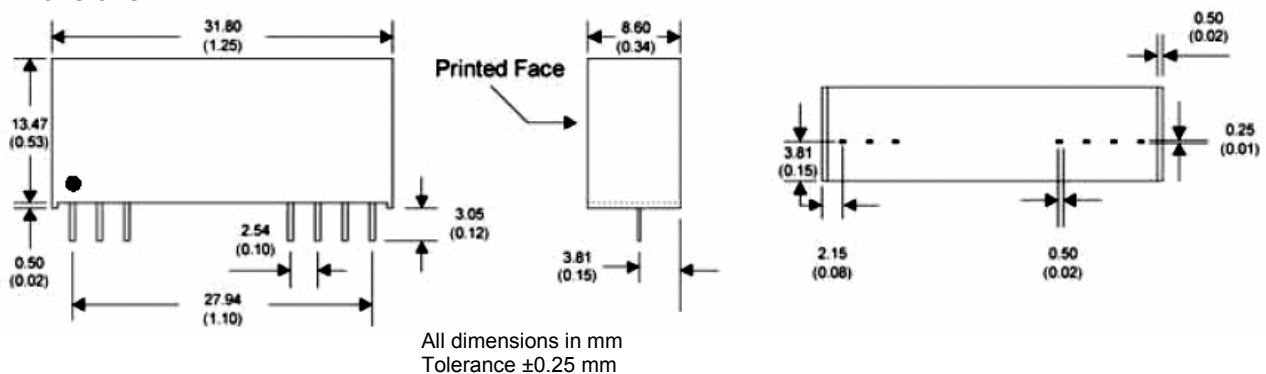
3W DC-DC Converter P3Y-Series

Specifications

Input	
Voltage range	± 10%
Filter	Pi - Network
Isolation:	
Rated voltage	1000 V _{DC} Standard see suffix note on table
Resistance	10 ⁹ Ω
Capacitance	60 pF, typ.
Output	
Voltage accuracy	± 2%, max.
Ripple and noise (at 20 MHz BW)	75 mVp-p, max.
Short circuit protection	Momentary
Short circuit restart	Automatic
Line voltage regulation	± 0,5% max.
Load voltage regulation	± 0,5% max.
Temperature coefficient	± 0.02% / °C

General	
Efficiency	65% to 72%
Switching frequency	40 kHz, typ.
Environmental	
Operating temperatur (ambient)	-40 °C to +85 °C
Case temperature	90 °C, max.
Storage temperature	-40 °C to +125 °C
Derating	None required
Humidity	Up to 90%, non-condensing
Cooling	Free-air convection
Physical	
Dimensions	SIL 31.8 x 8.6 x 13.5 mm
Weight	2.5 g
Case material	non-conductive black plastic

Dimensions



Pin connections

Pin	Standard	3kV _{DC}
1	+V Input	+V Input
2	N.C.	-V Input
3	N.C.	N.C.
9	N.C.	N.C.
10	-V Output	-V Output
11	+V Output	+V Output
12	-V Input	N.C.

Life Support Policy: HY-LINE does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.
Rev: 09.06 f