



FAB1211005



Features

- 18-36Vdc Input voltage
- 2 outputs : 3V3 / 75W & 5V / 125W
- 3U * 4TE * 160 mm, compac PCI® format
- Positronic 47pts connector
- Surge and transient protection
- Conduction cooled 95°C baseplate + wedgelocks

Safety IEC/EN 60950-1, RoHS lead-free-solder compliant



The FAB1211005 is a CompactPCI® format compliant with PICMG 2.11 standard. It incorporates input filtering, input and output protections, very robust mechanical mounting and connection, conformal coating, required in most of the severe environment for military applications. The converter provides high reliability, high efficiency, input-to-output isolation, soft start, overtemperature protection, input over/undervoltage lockout. The output is continuously short-circuit proof. The 95°C baseplate operation allows operation in high temperature environment.

Electrical Input Data

Input Characteristics	Conditions	28			Unit
		min	typ	max	
Operating input voltage		18		36	Vdc
Nominal input voltage			28		Vdc
Maximum transient input	60ms			100	Vdc
Undervoltage lockout			15		Vdc
Input current			9		A

Electrical Output Data

Output Characteristics	Conditions	V1			V2			Unit
		min	typ	max	min	typ	max	
Output voltage			3,3			5		Vdc
Nominal output current			22			25		A
Output current limit		23		32	26		30	A
Output noise			100			100		mVpp
Load regulation			100			150		mV
Start up time			0,2			0,2		s

Connector Pin Allocation

PIN	Positronic 47 points	
1-4	V1	Output 1
5-12	RTN	Return
13-18	V2	Output2
19	RTN	Return
20-21	NC	NC
22	RTN	Return
23	NC	NC
24	RTN	Return
25-38	NC	NC
39	INH	Inhibit
40-44	NC	NC
45	CGND	Chassis ground
46	+DCIN	Pos. DC input
47	-DCIN	Neg. DC input

Environmental & Mechanical

- Built to meet MIL STD 810E : Ruggedized with glue for the component, 95 % humidity with conformal coating.
- Operating temperature : -40°C +95°C, baseplate
- Isolation : 1500Vrms I/O, 1500Vrms I/baseplate, 500Vrms O/baseplate

E.M.I.

- Built to meet MIL STD 461E CE102
- Transient MIL STD 704A, MIL STD 1275A (100V/60ms)

Protections

- Output overcurrent and short circuit
- Reverse input protection by serial diode