



CE-1000 Series

1.5 - 2.5A Point of Load Converter

- 3 to 5V or 6 to 16V Input
- 1 to 5V Outputs (programmable)
- Surface Mount
- Low 4.5mm Profile (CE-1005 - 4.2mm)
- Non Isolated Output

Key Market Segments & Applications

Telecommunications
 Datacom
 Instrumentation

CE-1000 Features and Benefits

Features

- Output voltage programming
- Five sided shielding

Benefits

- Reduces the number of models needed
- Reduced EMI

Specifications

MODELS		CE-1003	CE-1004	CE-1005
Nominal Output Voltage	VDC	1.5 to 3.3	3.3 to 5.0	1 to 3.3
Input Voltage Range	VDC	6 - 16		3 - 5.25
Input Current (max)	A	2.4		
Output Voltage Tolerance	%	N/A		±3%
Ripple & Noise (typ) (pk - pk)	mV	100	100	50
Total Regulation (max)	mV	±5%	±5%	±4%
Overload Protection (typ)	A	2	2	3
Overvoltage Protection	-	None		
Remote Sense	-	None		
Remote On / Off (1)	-	ON = 2 - 6V; OFF= 0 - 0.6V		ON = <0.5V; OFF= >2V
Sequencing	-	None		
Temperature (operating)	°C	-40 to +85°C (CE1003, 1004 derate linearly to 80% load above 70°C)		
Temperature (storage)	°C	-40 to +85°C		
Humidity (operating)	-	10-90% RH Non condensing @ max temp 38°C		
Humidity (storage)	-	Sealed packaging, see Technical Download		
Cooling	-	Convection or forced air		
Isolation Voltage	VDC	N/A		
Vibration (non operating)	-	Frequency: 10-2000Hz, Sweep time: 4 minutes per cycle Amplitude: 10G, 30 minutes each x, y, and z direction		
Shock	-	Peak Acceleration: 100G, Duration: 6msec; three times each axis		
Safety Agency Approvals	-	N/A		
Weight (max)	g	1.8	1.8	1.7
Size	mm	18.3 x 12.3 x 4.2		
Warranty	-	1 year		

Notes: (1) Pin 5

Model Selector				
Model	Output Voltage (V)	Output Adjust (V)	Output Current (A)	Efficiency (typ)
CE-1003	1.5 - 3.3	1.5 - 3.3 ⁽²⁾	1.5	86.5%
CE-1004	3.3 - 5	3.3 - 5 ⁽²⁾	1.5	86.5%
CE-1005	1.0 - 3.3	1.0 - 3.3	2.5 ⁽³⁾	91.5%

Notes: (2) See Programming Table (3) See CE-1005 Derating Table

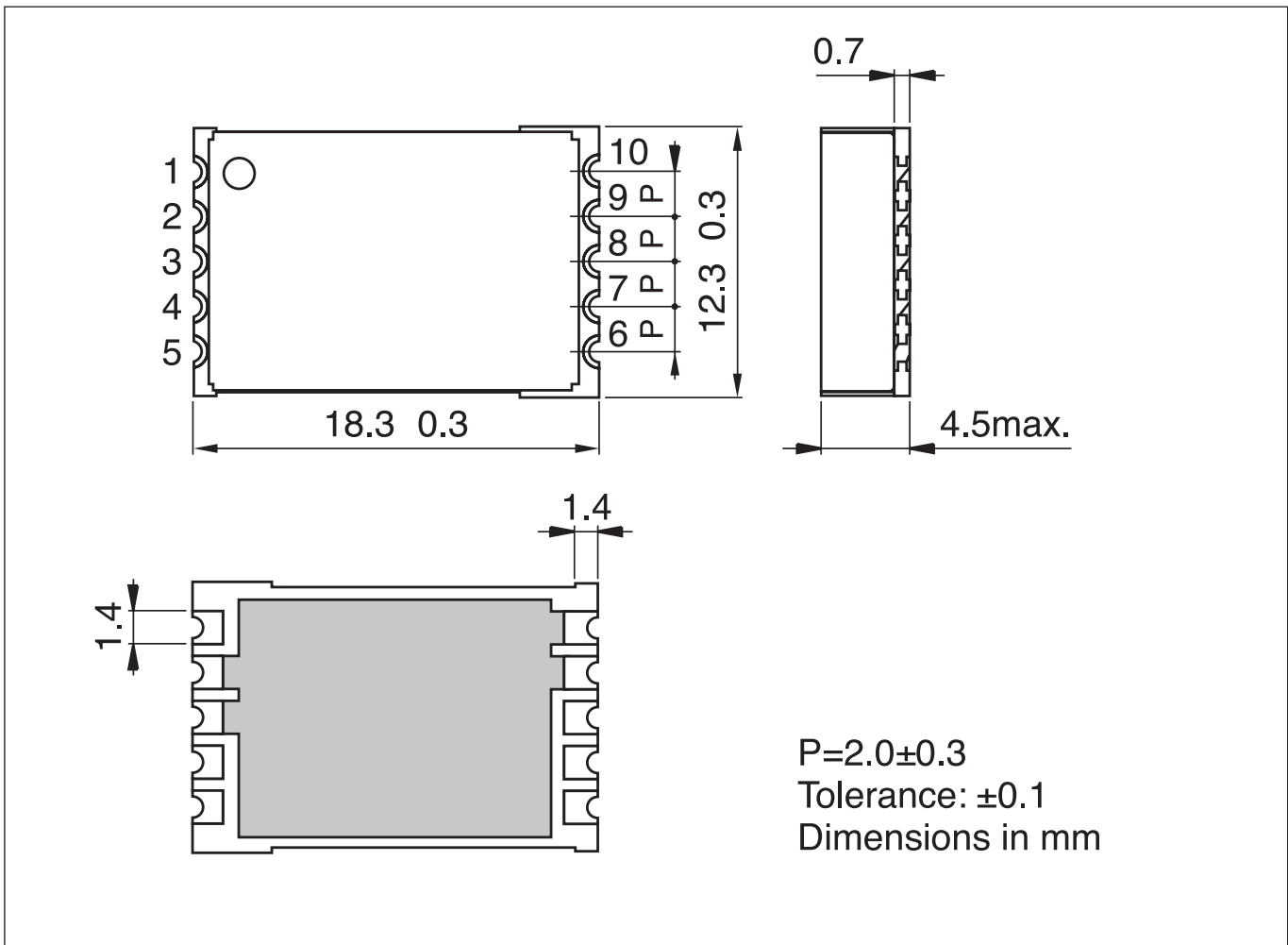
CE-1005 Derating Table		
Vout	3.3 Vin	5.0 Vin
1.0	1.75A	1.5A
1.2	1.85A	1.65A
1.5	2.00A	1.85A
1.8	2.15A	2.0A
2.0	2.25A	2.2A
2.5	2.50A	2.5A
3.3	-	2.5A

CE-1003, 1004 Programming Table				
Pin 7	Pin 8	Pin 9	Output Voltage CE-1003	(Vout) CE-1004
0	0	0	3.3	5.0
0	0	1	3.0	4.8
0	1	0	2.8	4.5
0	1	1	2.5	4.3
1	0	0	2.3	4.0
1	0	1	2.0	3.8
1	1	0	1.8	3.5
1	1	1	1.5	3.3

0 = Short to GND 1 = Open
See web site for detailed specifications

CC-1005 can be trimmed with external resistor

Outline Drawing CE-1000 Series



Pinout			
Pin	CE-1003	CE-1004	CE-1005
1	Vin	Vin	Vin
2	Vin	Vin	Vin
3	GND	GND	GND
4	GND	GND	GND
5	On / Off	On / Off	On/Off
6	GND	GND	GND
7	Vs-0	Vs-0	GND
8	Vs-1	Vs-1	Vset
9	Vs-2	Vs-2	Vout
10	Vout	Vout	Vout

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