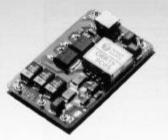
**POWER SOURCE** 

DC/DC CONVERTER





# Super-small, high efficiency SINGLE-OUTPUT OBR-S C SERIES DUAL-OUTPUT OBR-WC SERIES

warranty 3 years

OBR-SC05 (DC5V ) 29×46×10 mm										
Model	Input	Input current on no-load	Output	Effciency						
OBR05SC05		15mA	5V 1.0A	74%						
OBR12SC05	DC 5V	35mA	12V 0.5A	74%						
OBR15SC05	4.5V-6V	36mA	15V 0.4A	75%						
OBR24SC05		51mA	24V 0.26A	76%						

#### ★OBR-SC12 (DC12V ) 29×46×10 mm

Model	Input	Input current on no-load	Output	Effciency
OBR05SC12	s - 50	15mA	5V 1.0A	75%
OBR12SC12	DC 12V	20mA	12V 0.5A	78%
OBR15SC12	9V-18V	25mA	15V 0.4A	79%
OBB24SC12	0.02240.03443	30mA	24V 0.26A	81%

#### ★OBR-SC2448 (DC24/48V) 29×46×10 mm

Model	Input	Input curren	t on no-load	Output	Effciency			
OBR05SC2448	1.24	24V:11mA	48V:13mA	5V 1A	24V:78%	48V:76%		
OBR12SC2448	DC 24/48V	24V:12mA	48V:14mA	12V 0.5A	24V:82%	48V:81%		
OBR15SC2448	18V-72V	24V:12mA	48V:14mA	15V 0.4A	24V:84%	48V:82%		
OBR24SC2448		24V:14mA	48V:16mA	24V 0.26A	24V:85%	48V:84%		

Following strong market demands for "distributed power" we have developed a new DC/DC converter, suitable for PCB mounting. The non-encapsulated DC/DC converter is very small, light and very competitive. The Input range varies from 4.5VDC to 6VDC, 9VDC to 18VDC, and 18VDC-72VDC.

The pin layout is competible to the OBS (10W) series.

### Special Features

- 1. Open board type
- 2. Super small size, light weight
- 3. Wide range input (DC4.5V~6V, 9V~18V & DC18V~72V)
- 4. Output trimming. High efficiency (Single output only)
- 5. Isolation voltage : 500V min.
- 6. Wide operating temperature range
- 7. Low input current at no-load

★OBR-WC05 (DC5V) 29×46×10 mm

Model	Input	Input current on no-load	Output	Effciency
OBR22WC05	DC 5V	34mA	±12V 0.25A	74%
OBR23WC05	4.5-6V	45mA	±15V 0.2A	75%

#### ★OBR-WC12 (DC12V) 29×46×10 mm

Model	Input	Input current on no-load	Output	Effciency
OBR22WC12 DC 12V		25mA	±12V 0.25A	78%
OBR23WC12	9V~18V	25mA	±15V 0.2A	79%

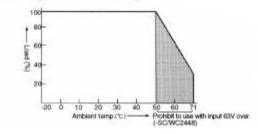
#### ★OBR-WC2448 (DC24/48V ) 29×46×10 mm

Model	Input	Input curren	Output	Effci	ency	
OBR22WC2448	DC 24/48V	24V:18mA	48V:18mA	±12V 0.25A	24V:81%	48V:80%
OBR23WC2448	18V~72V	24V:18mA	48V:18mA	±15V 0.2A	241/.82%	48V:81%

## Applications

Telecomunication, office equipment, industrial machines and electronics, automation, robotics, household equipment.

#### Output Derating





## OBR-SC/WC

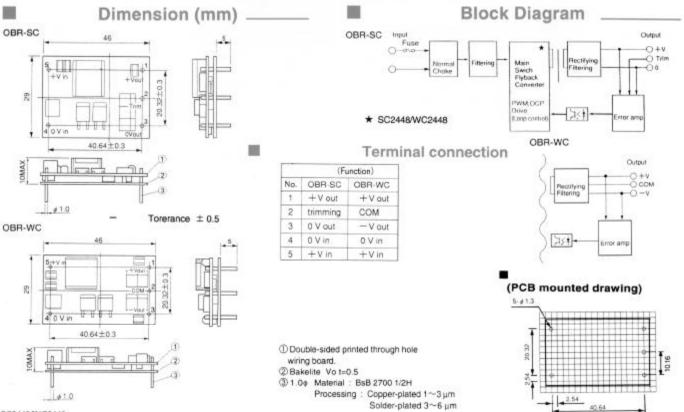
## Specification \_

Model	OBR05	SC	0	BR12	SC	O	BR158	SC	O	BR24	SC	OE	BR22WC		O	3R23	WC
( Input voltage)	05 12	2448	05	12	2448	05	12	2448	05	12	2448	05	12 244	18	05	12	2448
Output																	
Voltage	5V	5V				15V		24V		±12V			±15V				
Voltage torerance	±0.1V N	±0.1V MAX ±0.24V MAX		IAX	±0	3V M	AX	±0.	48V N	IAX	±0.24V MAX			±0.3V MAX		AX	
Ripple&noise		100mVp-p MAX															
Line regulation	25mV N	IAX	60	mV M	AX	75	mV M	AX	120	mV N	IAX	60	mV MAX		75	mV N	AX
Load regulation	25mV N	IAX	60	mV M	AX	75	mV M	AX	120	mV N	IAX	±480r	nV MAX	21	±600mV MAX		IAX 3
Temperature coefficient							0.039	6/°C (	-20-+	71°C)				_			+
Drift / Time effect (8h/25°C)	40mV N	75	imV M	AX	90	mV M	AX	135	5mV N	IAX	75	mV MAX		90	mV N	AX	
Rize-up time		5mS Typical (SC2448/WC2448 [\$15mS Typical)											_				
Isolation						-											
withstand voltage		Input-output 500V AC 1 Minute (At room temperature and humidity										nidity)	)				
Isolation resistance		Input-output 500V DC 50MΩ MIN (At room temperature and humidi								nidity)	,						
Environment				1.56							_					-	
Operating temperature			_	-	20-+71	°C (5	O°C 3	3.5%/*	C)								
Storage temperature								-20-+	85°C								
Humidity								20-90	%RH	2							
Vibration				(!	5-10Hz	) 10mr	n, (10	~55Hz)	2G X,	Y,ZE	ach 30	Minute	is .				_
shock								30	G								
Additional functions																	
	+250m	١V	+250mV		+350mV		+650		+650mV		-		-				
Output voltage trimming range	-250m	١V		900m	V	-1.6V			-4V		-						
0	Drop type (Automatic recover) (SC05 / 12)																
Over current protection						Fo	ld bac	k prote	ction (	Autom	natic re	cover)	SC2448 /	WC	2448	2	
Weight						0.131		1	2g								

1 Load condition 10~100%

2 Output varies to lower with resistor by connected 1 pin to 2 pin ( $\infty$  / rating  $\rightarrow$  0 $\Omega$  / max variation)

Output varies to upper with resistor by connected 2 pin to 3 pin ( $\infty$  / rating  $\rightarrow$  0 $\Omega$  / max variation)



SC2448/WC2448

Parts location : subject to change without novice. (-SC2448/WC2448)

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ETA-USA:

 OBR23WC05
 OBR23WC12
 OBR05SC1224
 OBR05SC05
 OBR05SC12
 OBR24SC1224
 OBR12SC1224

 OBR15SC1224
 OBR24SC12
 OBR24SC05
 OBR15SC12
 OBR15SC05
 OBR22WC12
 OBR12SC1224