



- ① Series name
- ② Single output
- ③ Output current
6: 6A
12: 12A
20: 20A
- ④ Optional
R : Positive logic remote on/off
I : No clock output for frequency synchronization
Y1 : Suitable control for external capacitor over 470 μF

MODEL	BRNS6	BRNS12	BRNS20
MAX OUTPUT CURRENT[A]	6.0	12.0	20.0
DC OUTPUT	0.6 - 5.5		

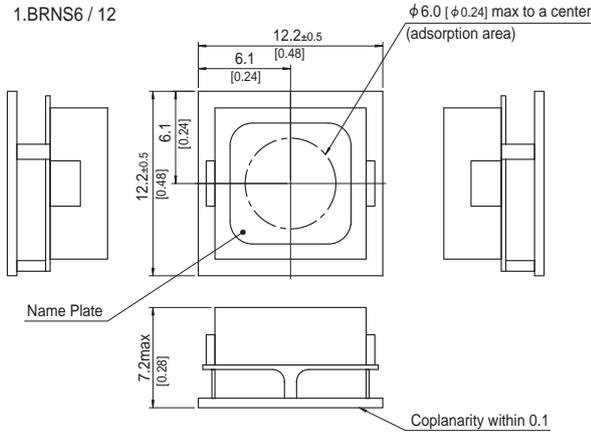
SPECIFICATIONS

	MODEL	BRNS6	BRNS12	BRNS20
INPUT	VOLTAGE[V]	DC3.0 - 14.4		
	CURRENT[A]	*1 0.70 typ	1.40 typ	2.30 typ
	EFFICIENCY[%]	*1 86 typ	86 typ	87 typ
OUTPUT	VOLTAGE[V]	*2 0.6 - 5.5	0.6 - 5.5	0.6 - 5.5
	CURRENT[A]	6	12	20
	LINE REGULATION1[mV] Vo ≤ 1.8V	10		
	LINE REGULATION2[%Vo] Vo > 1.8V	0.5		
	LOAD REGULATION1[mV] Vo ≤ 1.8V	10		
	LOAD REGULATION2[%Vo] Vo > 1.8V	0.5		
	OUTPUT VOLTAGE SETTING [%Vo]	±1.0		
	RIPPLE[mVp-p]	*3 25		
	RIPPLE NOISE[mVp-p]	*3 50		
	DRIFT[%Vo]	*4 ±0.5		
	START-UP TIME[ms]	4.5 typ		
OUTPUT VOLTAGE ADJUSTMENT RANGE [V]		Adjustable by external resistor		
		0.6 - 5.5		
OUTPUT VOLTAGE REGULATION [%Vo]*5		±3.0		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating (auto recovery type)		
	REMOTE SENSING	Available (+S only)		Available
	REMOTE ON/OFF	Available Negative logic L:ON, H:OFF		
ISOLATION	INPUT-OUTPUT	non-isolated		
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +85°C, 20-95%RH (Non condensing) (Refer to DERATING CURVE) 3,000m (10,000feet) max		
	STORAGE TEMP., HUMID. AND ALTITUDE	-40 to +100°C, 20-95%RH (Non condensing), 9,000m (30,000feet) max		
	VIBRATION	10-55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis		
	IMPACT	196.1m/s ² (20G), 11ms, once each along X, Y and Z axis		
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL(CSA60950-1), EN60950		
OTHERS	CASE SIZE/WEIGHT	12.2 × 7.2 × 12.2mm [0.48 × 0.28 × 0.48 inches] (W × H × D) / 4g max	20.3 × 8.5 × 11.4mm [0.80 × 0.35 × 0.45 inches] (W × H × D) / 6g max	
	COOLING METHOD	Convection / Forced air		

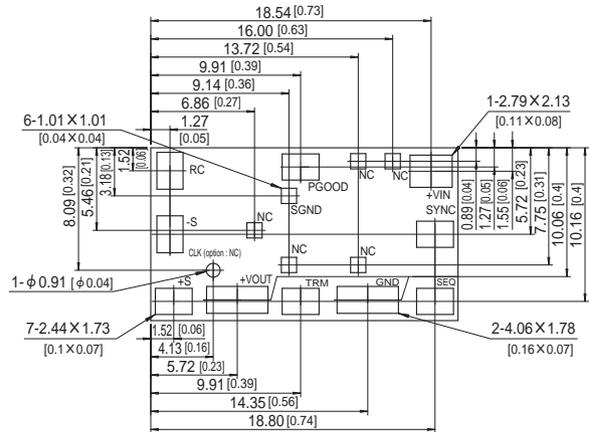
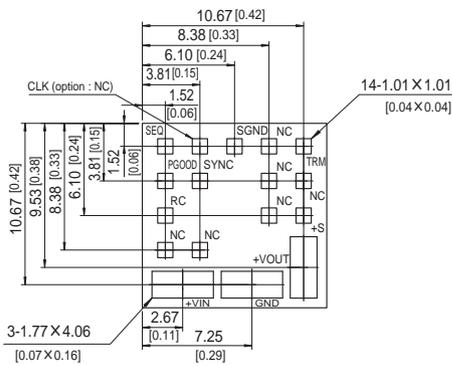
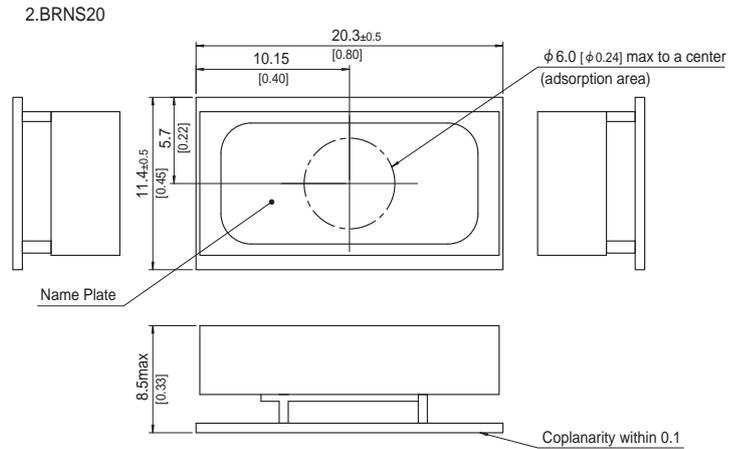
*1 At rated input (DC12V) and rated output (1.2V) Ta=25°C.
 *2 Output voltage is adjusted to the minimum when TRM is opened.
 *3 Ripple and ripple noise is measured by using measuring board with ceramic capacitor at 25mm from output pin.
 At rated input (DC12V) and rated output (1.2V).
 *4 Drift is the change in DC output for an eight hour period after a half - hour warm - up at 25°C, with the input voltage held.
 *5 Output voltage setting is added line regulation and load regulation and temperature regulation used resistance of the 0.5% tolerance.

External view

1. BRNS6 / 12



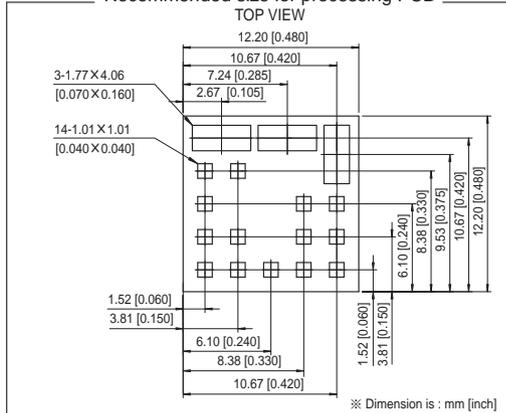
2. BRNS20



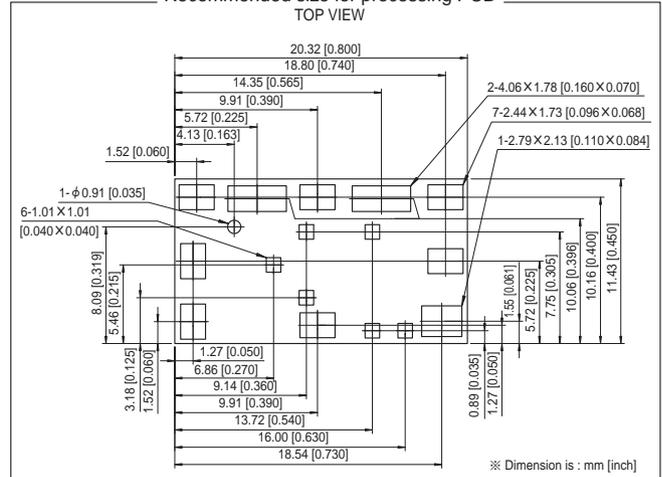
- ※ Tolerance : ±0.3
- ※ Dimensions in mm, []=inches
- ※ Weight : 4.0g max
- ※ Terminal material : PCB pattern
- ※ Plating treatment of terminal : Gold flashing

- ※ Tolerance : ±0.3
- ※ Dimensions in mm, []=inches
- ※ Weight : 6.0g max
- ※ Terminal material : PCB pattern
- ※ Plating treatment of terminal : Gold flashing

Recommended size for processing PCB



Recommended size for processing PCB



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