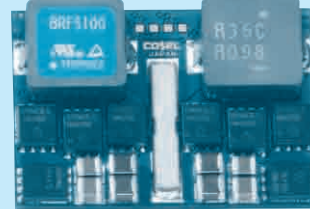
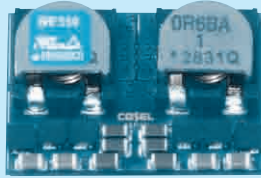


BRF S 50 L - ☐

① ② ③ ④ ⑤



RoHS



- ① Series name
 ② Single output
 ③ Output current
 30:30A
 40:40A
 50:50A
 60:60A
 100:100A
 ④ Type
 Blank : Standard type
 L : Low profile type (only 50A)
 ⑤ Optional
 R : Positive logic remote on/off
 I : POWERGOOD (only BRFS30/40)
 *Other models has POWERGOOD function normally.
 P : Parallel operation (only BRFS40)

MODEL	BRFS30	BRFS40	BRFS50	BRFS50L	BRFS60	BRFS100
MAX OUTPUT CURRENT[A]	30.0	40.0	50.0	50.0	60.0	100.0
DC OUTPUT	0.8 - 3.63V	0.6 - 2.0V	0.7 - 2.0V	0.7 - 2.0V	0.7 - 2.0V	0.7 - 2.0V

SPECIFICATIONS

	MODEL	BRFS30	BRFS40	BRFS50	BRFS50L	BRFS60	BRFS100					
INPUT	VOLTAGE[V]	DC4.5 - 14.0										
	CURRENT[A]	*1 3.41 typ	4.52 typ	5.68 typ	5.68 typ	6.82 typ	11.24 typ					
	EFFICIENCY[%]	*1 88 typ	88.5 typ	88 typ	88 typ	88 typ	88 typ					
OUTPUT	VOLTAGE[V]	*2 0.8 - 3.63	0.6 - 2.0	0.7 - 2.0	0.7 - 2.0	0.7 - 2.0	0.7 - 2.0					
	CURRENT[A]	30	40	50	50	60	100					
	LINE REGULATION[mV]	5										
	LOAD REGULATION[mV]	5										
	RIPPLE[mVp-p]	*3 25										
	RIPPLE NOISE[mVp-p]	*3 50										
	OUTPUT VOLTAGE SETTING [%Vo]	±1										
	DRIFT[mV]	*4 5										
	START-UP TIME[ms]	8.0 typ										
	OUTPUT VOLTAGE ADJUSTMENT RANGE [V]	Adjustable by external resistor										
		0.8 - 3.63						0.6 - 2.0	0.7 - 2.0	0.7 - 2.0	0.7 - 2.0	0.7 - 2.0
	OUTPUT VOLTAGE TOTAL REGULATION [%Vo]*5	±3										
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℃, 20-95%RH (Non condensing) (Refer to DERATING CURVE) 3,000m (10,000feet) max										
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +100℃, 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	33.0×9.5×13.5mm [1.3×0.37×0.53 inches] (W×H×D) / 10g max	33.0×10.9×13.5mm [1.3×0.43×0.9 inches] (W×H×D) / 12g max	33.0×9.5×22.9mm [1.3×0.37×0.9 inches] (W×H×D) / 15g max	33.0×7.0×22.9mm [1.3×0.28×0.9 inches] (W×H×D) / 12g max	33.0×8.0×22.9mm [1.3×0.31×0.9 inches] (W×H×D) / 15g max	38.0×8.5×27.7mm [1.5×0.33×1.09 inches] (W×H×D) / 22g max					
	COOLING METHOD	Convection / Forced air										

*1 AT rated input (DC12V) and rated output (1.2V) Ta=25°C.

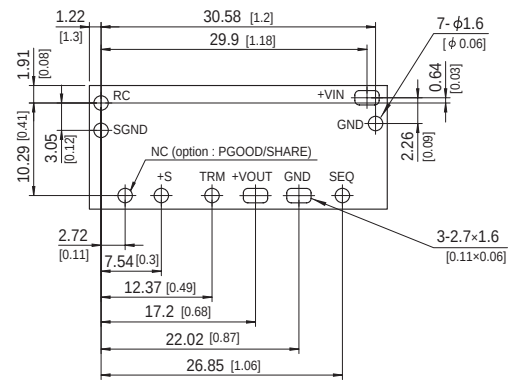
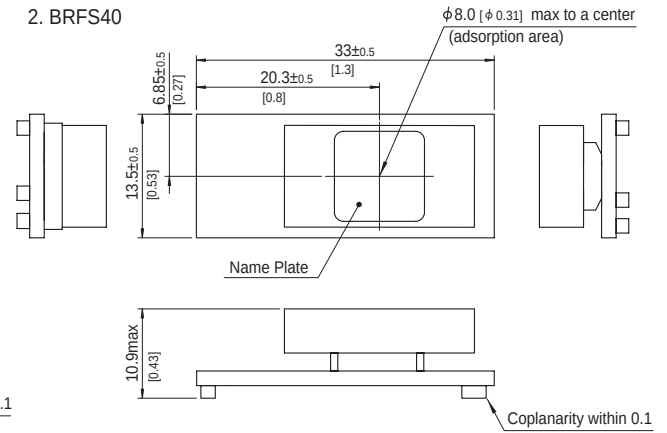
*2 Output voltage is adjusted to the minimum when TRM is opened.

*3 Ripple and ripple noise is measured by using measuring board with ceramic capacitor at 50mm from output pin.

*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.

2. BRFS40

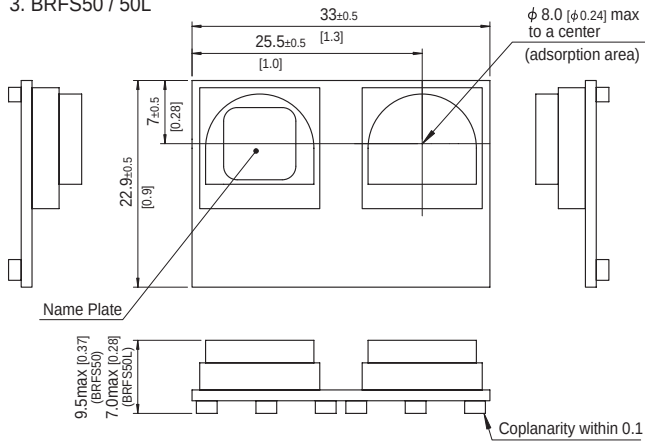


- ※ Tolerance : ± 0.3 [± 0.012]
- ※ Dimensions in mm, []=inches
- ※ Weight : 12g max
- ※ Terminal material : copper
- ※ Plating treatment of terminal
: Lead free plating

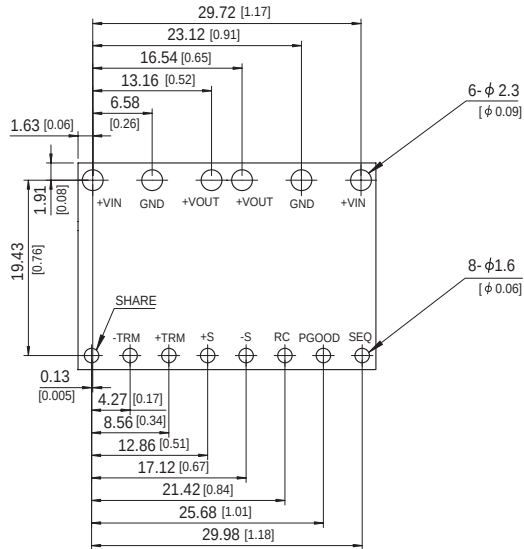
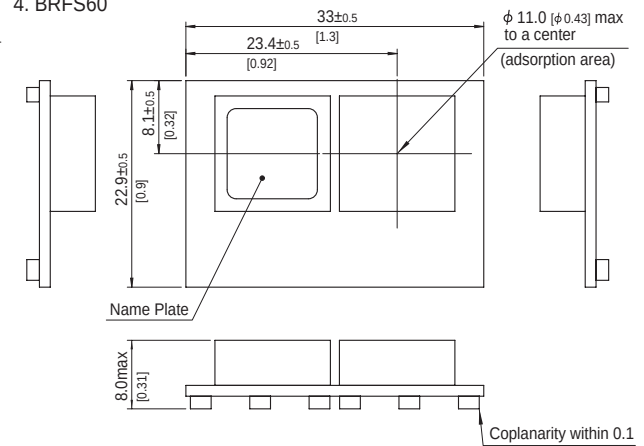


External view

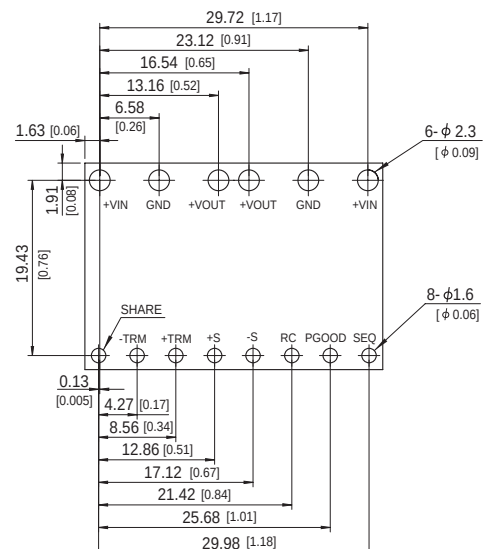
3. BRFS50 / 50L



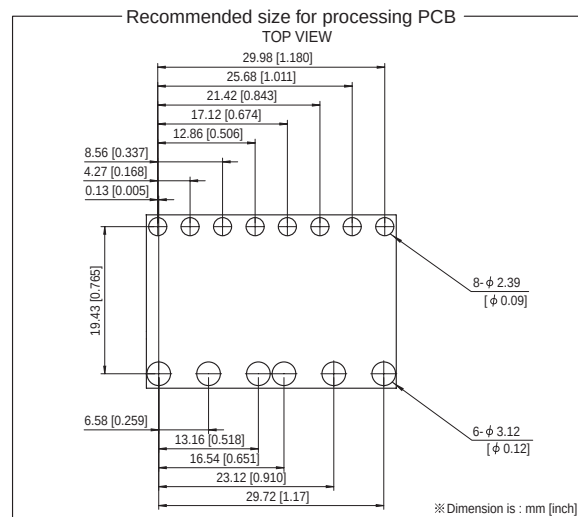
4. BRFS60



- ※ Tolerance : ±0.3 [±0.012]
- ※ Dimensions in mm, []=inches
- ※ Weight : 15g max (BRFS50)
12g max (BRFS50L)
- ※ Terminal material : copper
- ※ Plating treatment of terminal : Lead free plating

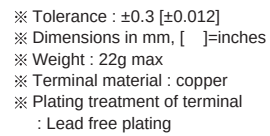


- ※ Tolerance : ±0.3 [±0.012]
- ※ Dimensions in mm, []=inches
- ※ Weight : 15g max
- ※ Terminal material : copper
- ※ Plating treatment of terminal : Lead free plating



The top view of the PCB is shown with the following dimensions and pin locations:

- Overall Dimensions:**
 - Width: 29.72 [1.17]
 - Height: 24.23 [0.95]
- Pin Locations (Top Edge):**
 - Pin 1 (+VIN): 1.91 [0.08] from left edge.
 - Pin 2 (GND): 4.15 [0.16] from left edge.
 - Pin 3 (+VOUT): 6.58 [0.26] from left edge.
 - Pin 4 (+VOUT): 13.16 [0.52] from left edge.
 - Pin 5 (+VOUT): 16.54 [0.65] from left edge.
 - Pin 6 (GND): 23.12 [0.91] from left edge.
 - Pin 7 (+VIN): 29.72 [1.17] from left edge.
- Pin Locations (Bottom Edge):**
 - Pin 8 (SHARE): 0.13 [0.005] from bottom edge.
 - Pin 9 (-TRM): 4.27 [0.17] from bottom edge.
 - Pin 10 (+TRM): 8.56 [0.34] from bottom edge.
 - Pin 11 (+S): 12.86 [0.51] from bottom edge.
 - Pin 12 (-S): 17.12 [0.67] from bottom edge.
 - Pin 13 (RC): 21.42 [0.84] from bottom edge.
 - Pin 14 (PGOOD): 25.68 [1.01] from bottom edge.
 - Pin 15 (SEQ): 29.98 [1.18] from bottom edge.
- Other Features:**
 - 12- ϕ 2.3 [0.09] (12 holes, 2.3mm diameter, 0.09mm pitch).
 - 8- ϕ 1.6 [0.06] (8 holes, 1.6mm diameter, 0.06mm pitch).



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