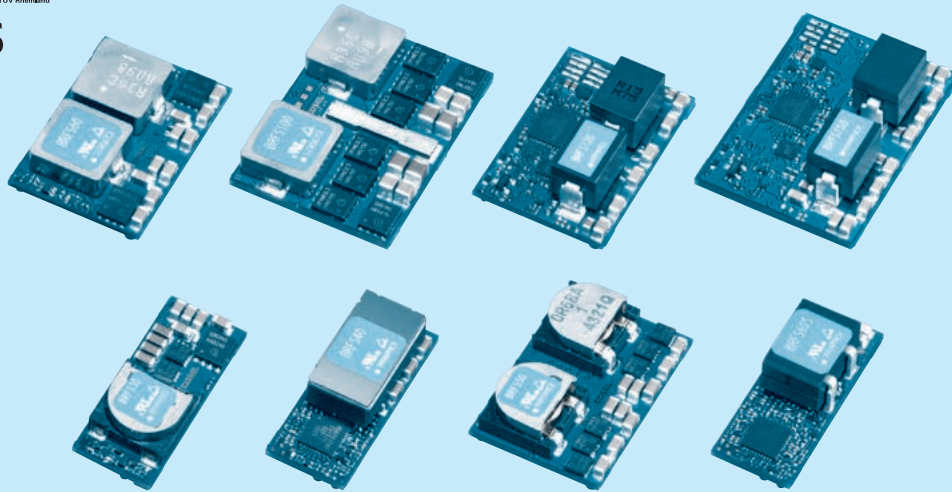




- ① Series name
 ② Single output
 ③ Output current
 30:30A
 40:40A
 50:50A
 60:60A
 100:100A
 120:120A
 150:150A
 ④ Type
 Blank : Standard type
 L : Low profile type (only 50A)
 S : Small type (only 60A)
 ⑤ Optional
 R : Positive logic remote on/off
 I : POWERGOOD (only BRFS30/40/60S)
 * Other models has POWERGOOD function normally.
 P : Parallel operation (only BRFS40/60S)
 Y1 : Fast transient response (only BRFS100)
 D : With switching frequency synchronization function (BRFS120 and BRFS150)
 L : High thermal dissipation (BRFS120 and BRFS150)

MODEL	BRFS30	BRFS40	BRFS50	BRFS50L	BRFS60	BRFS60S	BRFS100	BRFS120	BRFS150
MAX OUTPUT CURRENT[A]	30.0	40.0	50.0	50.0	60.0	60.0	100.0	120.0	150.0
DC OUTPUT	0.8 - 3.63V	0.6 - 2.0V	0.7 - 2.0V	0.7 - 2.0V	0.7 - 2.0V	0.6 - 2.0V	0.7 - 2.0V	0.6 - 1.8V	0.6 - 1.8V ^{*7}

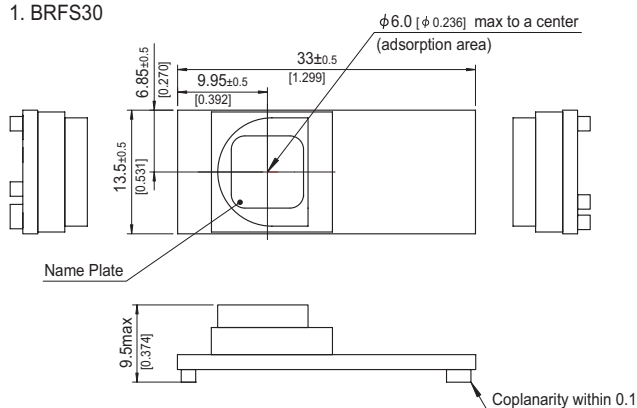
SPECIFICATIONS

	MODEL	BRFS30	BRFS40	BRFS50	BRFS50L	BRFS60	BRFS60S	BRFS100	BRFS120	BRFS150	
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	6.71 typ	11.24 typ	13.50 typ	16.90 typ	
	EFFICIENCY[%] *1	88.0 typ	88.5 typ	88.0 typ	88.0 typ	88.0 typ	89.5 typ	89.0 typ	89.0 typ	89.0 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	0.6 - 2.0	0.7 - 2.0	0.6 - 1.8	0.6 - 1.8 *7	
	CURRENT[A]	30	40	50	50	60	60	100	120	150	
	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						12.0 typ *6	8.0 typ	12.0 typ *6	
	OUTPUT VOLTAGE ADJUSTMENT RANGE [V]	Adjustable by external resistor									
	OUTPUT VOLTAGE TOTAL REGULATION [%Vo]*5	0.8 - 3.63 0.6 - 2.0 0.7 - 2.0 0.7 - 2.0 0.7 - 2.0 0.6 - 2.0 0.7 - 2.0 0.6 - 1.8 0.6 - 1.8 *7									
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating (auto recovery type)									
	REMOTE SENSING	Available (+S only)				Available		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), EN60950-1									
OTHERS	CASE SIZE/WEIGHT	33.0X9.5X13.5mm [1.3X0.37X0.53 inches] (WXHXD) / 10g max	33.0X10.9X13.5mm [1.3X0.43X0.53 inches] (WXHXD) / 12g max	33.0X9.5X22.9mm [1.3X0.37X0.9 inches] (WXHXD) / 15g max	33.0X7.0X22.9mm [1.3X0.28X0.9 inches] (WXHXD) / 12g max	33.0X8.0X22.9mm [1.3X0.31X0.9 inches] (WXHXD) / 15g max	33.0X12.7X13.5mm [1.3X0.5X0.53 inches] (WXHXD) / 12g max	38.0X8.5X27.7mm [1.5X0.33X1.09 inches] (WXHXD) / 22g max	33.0X12.7X22.9mm [1.3X0.5X0.9 inches] (WXHXD) / 14g max	38.0X13.8X27.7mm [1.5X0.54X1.09 inches] (WXHXD) / 21g max	
	COOLING METHOD	Convection / Forced air									

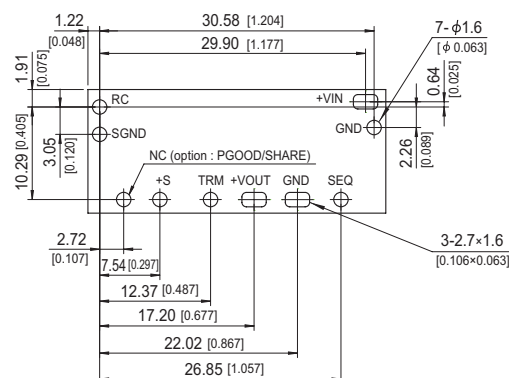
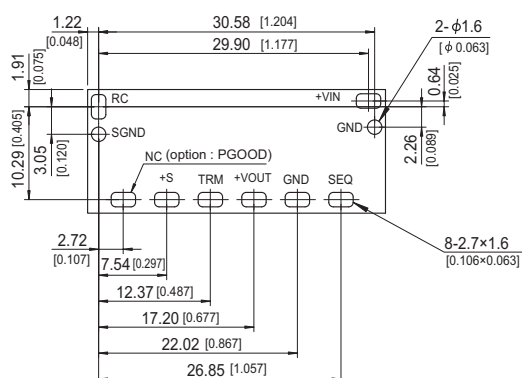
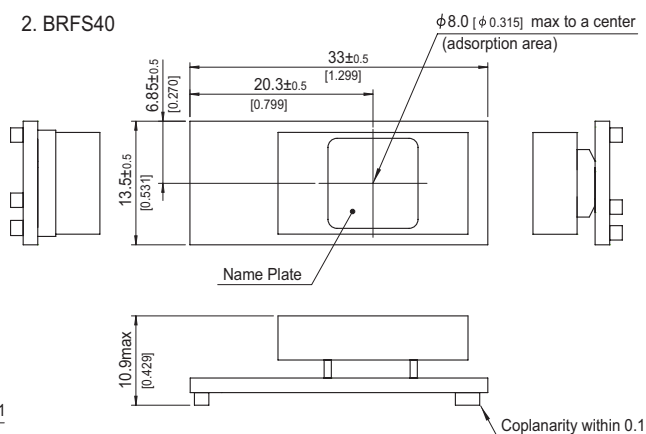
- ^{*1} At rated input (DC12V) and rated output (1.2V) Ta=25°C.
^{*2} Output voltage is adjusted to the minimum when TRM is opened.
^{*3} Ripple and ripple noise is measured by using measuring board with ceramic capacitor at 50mm from output pin.
^{*4} Drift is the change in DC output for an eight hour 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.
^{*6} The start-up time when using the RC terminal is same as other BRFS.
^{*7} The output voltage adjustment area determines by the input voltage.

External view

1. BRFS30

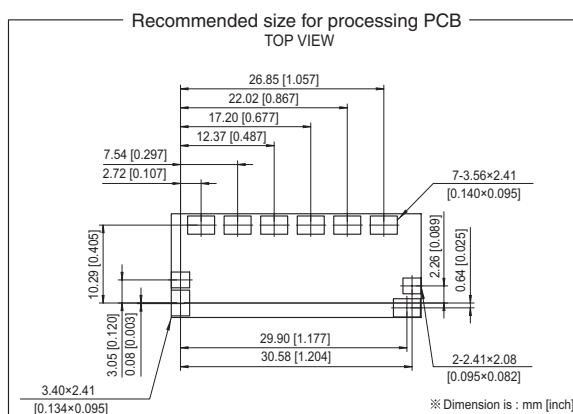


2. BRFS40



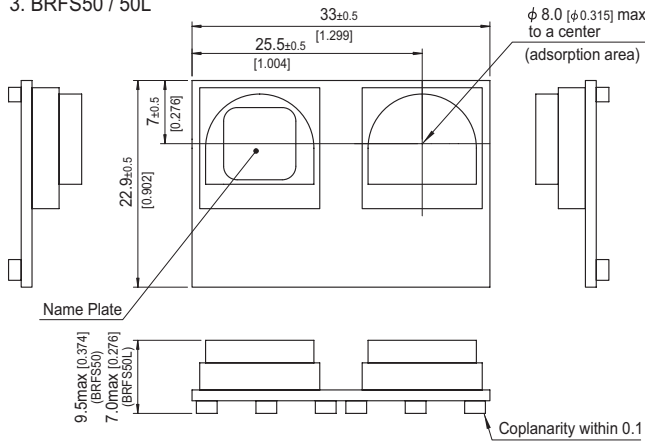
※ Tolerance : ± 0.3 [± 0.012]
 ※ Dimensions in mm, []=inches
 ※ Weight : 10g max
 ※ Terminal material : copper
 ※ Plating treatment of terminal : Lead free plating

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

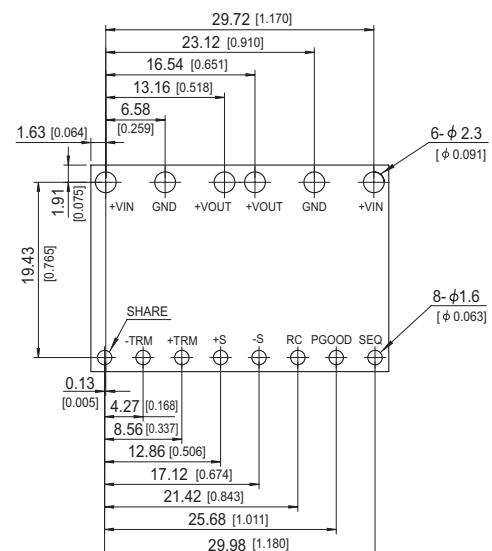
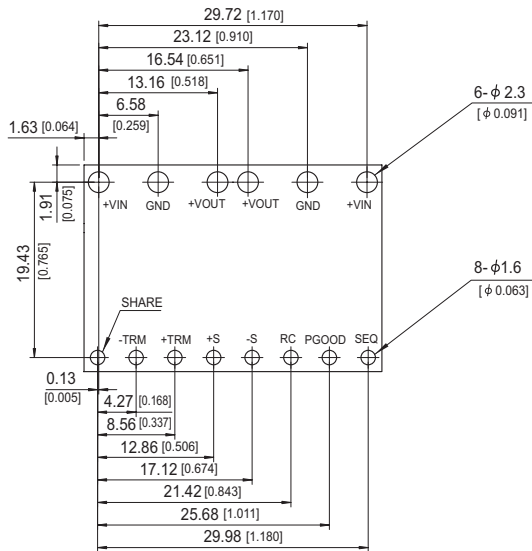
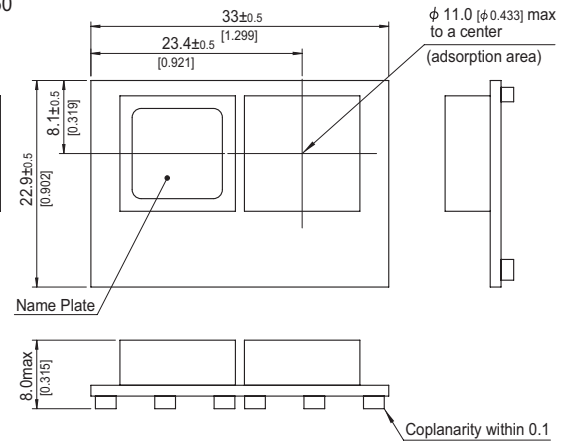


External view

3. BRFS50 / 50L

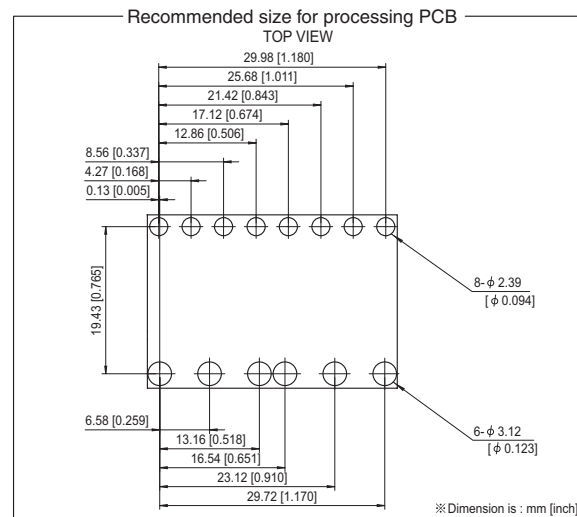


4. BRFS60



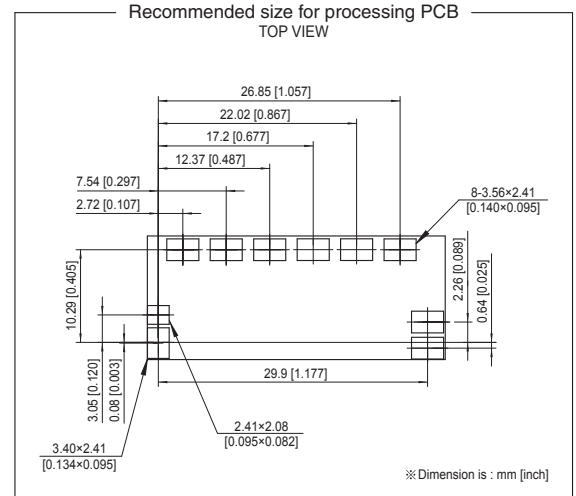
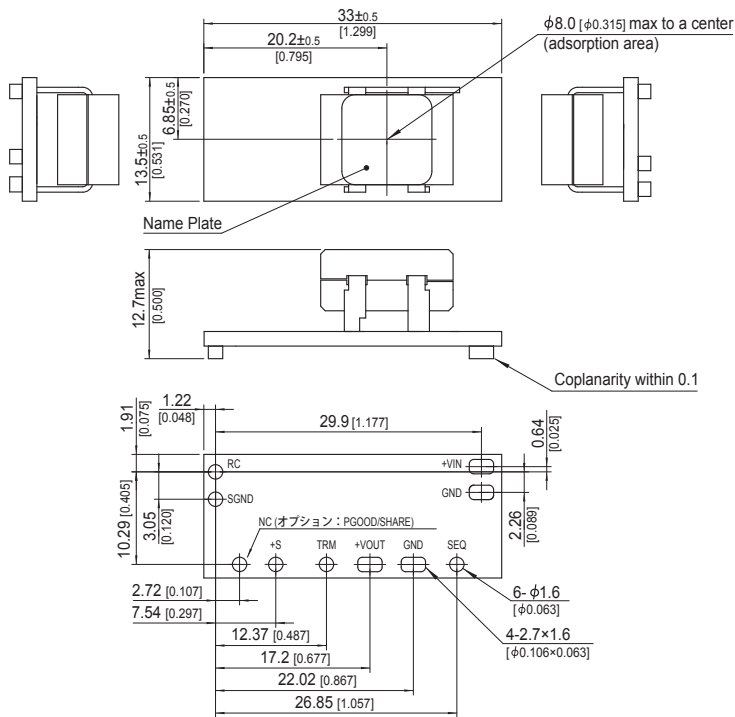
※ Tolerance : ±0.3 [±0.012]
 ※ Dimensions in mm, []=inches
 ※ Weight : 15g max (BRFS50)
 12g max (BRFS50L)
 ※ Terminal material : copper
 ※ Plating treatment of terminal
 : Lead free plating

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



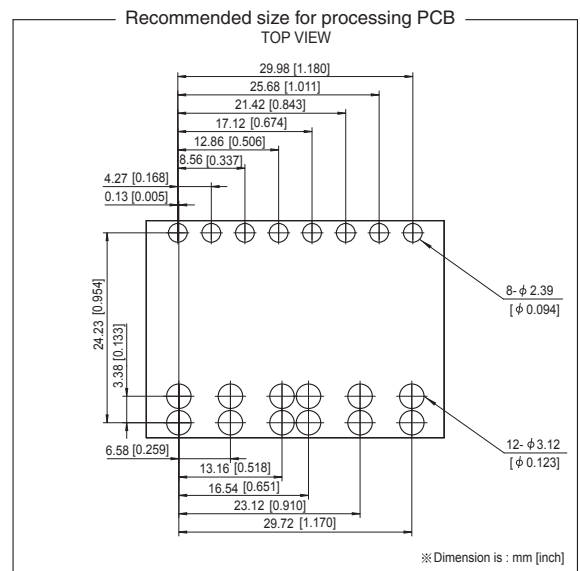
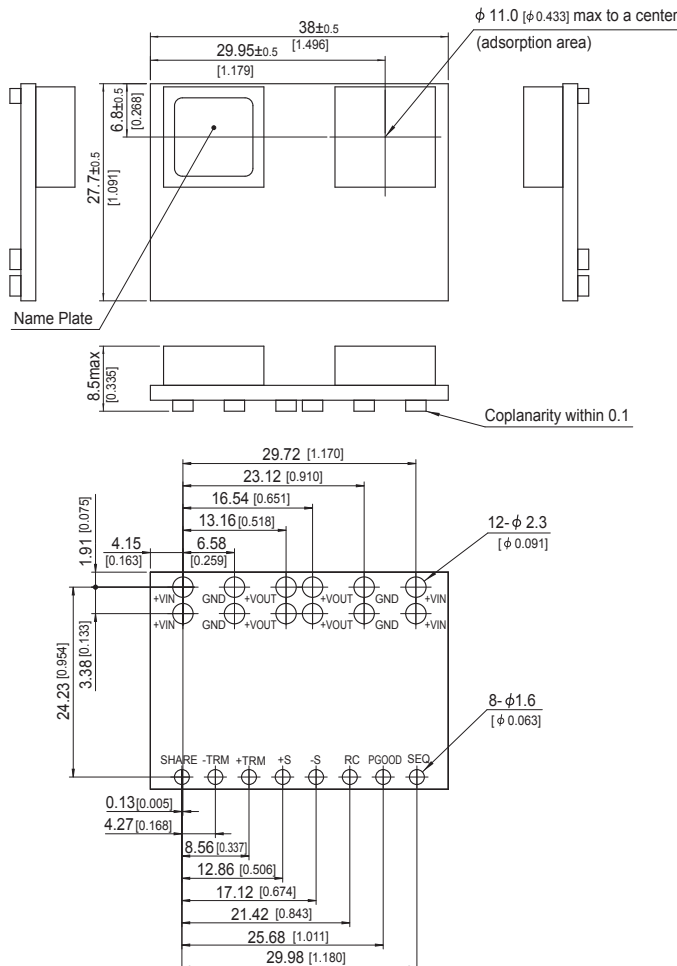
External view

5. BRFS60S



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

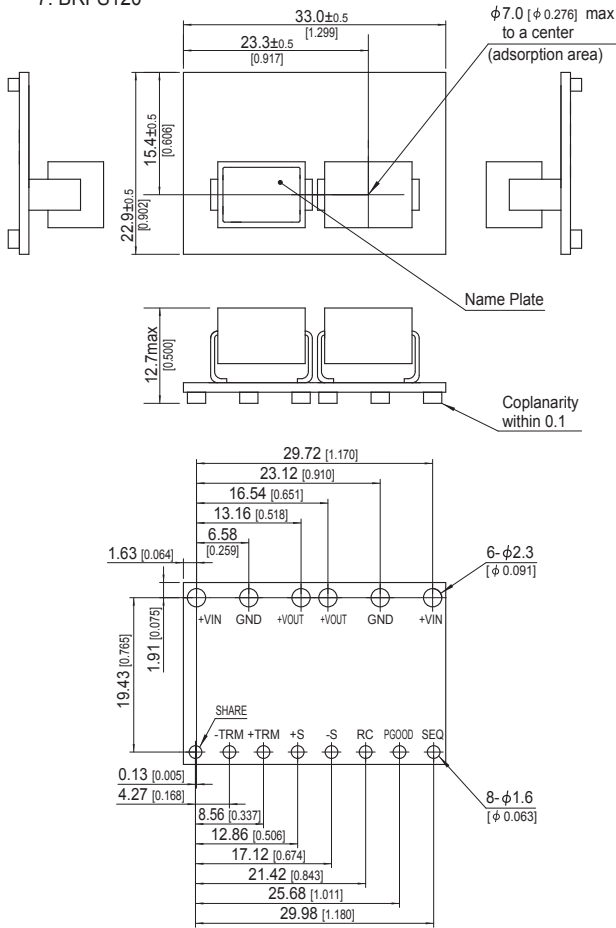
6. BRFS100



- ※ Tolerance : ±0.3 [±0.012]
- ※ Dimensions in mm, []=inches
- ※ Weight : 22g max
- ※ Terminal material : copper
- ※ Plating treatment of terminal : Lead free plating

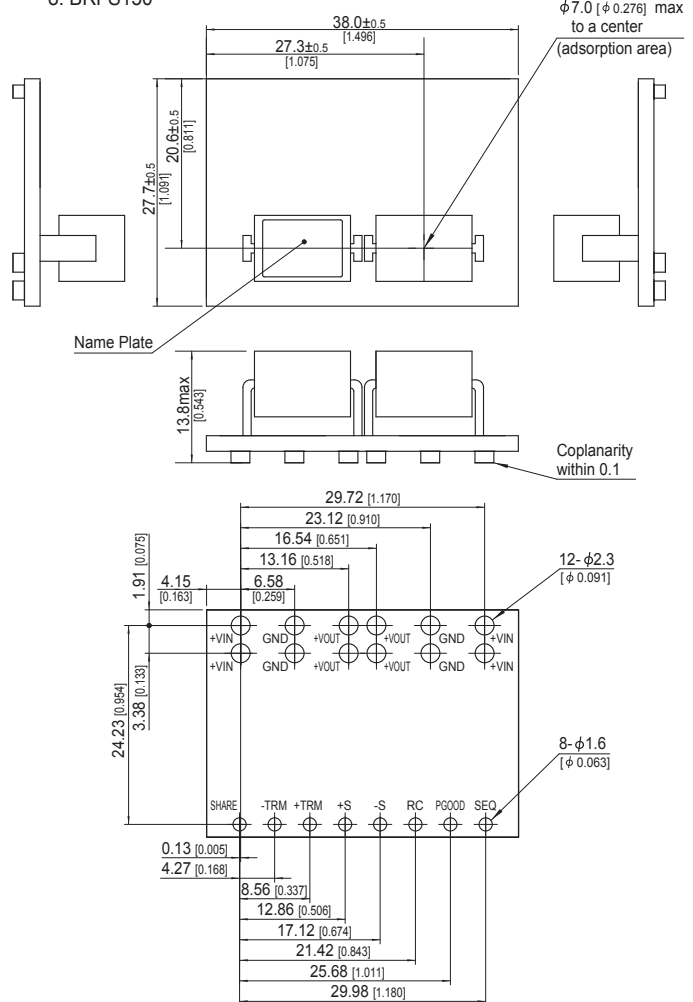
External view

7. BRFS120

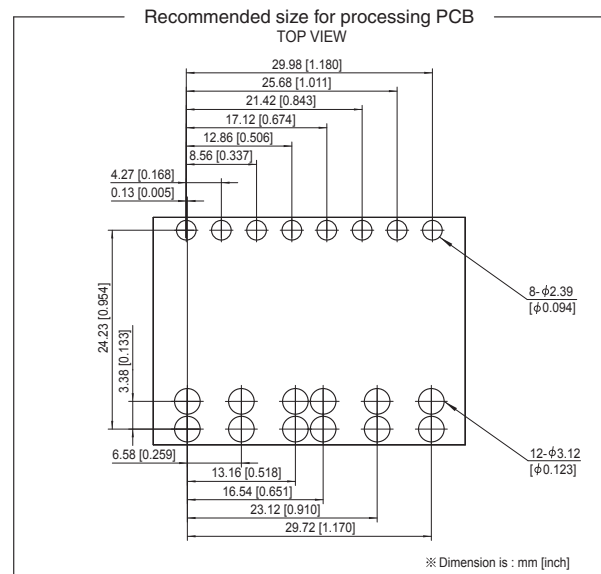
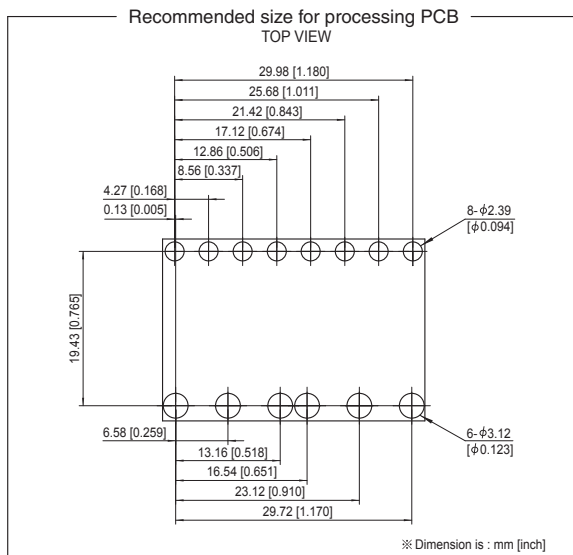


- ※ Tolerance : ±0.3 [±0.012]
- ※ Dimensions in mm, []=inches
- ※ Weight : 14g max
- ※ Terminal material : copper
- ※ Plating treatment of terminal : Lead free plating

8. BRFS150



- ※ Tolerance : ±0.3 [±0.012]
- ※ Dimensions in mm, []=inches
- ※ Weight : 21g max
- ※ Terminal material : copper
- ※ Plating treatment of terminal : Lead free plating





Макро Групп – это:

- дистрибьютор электронных компонентов с 1994 года
- контрактный производитель электроники с 2007 года с собственным производством в Санкт-Петербурге (компания Макро ЕМС, входит в ГК Макро Групп)
- поставщик полупроводниковых материалов
- комплексный поставщик электронных компонентов
- моделирование и производство полупроводниковых эпитаксиальных гетероструктур для задач оптоэлектроники

Головной офис расположен в Санкт-Петербурге. Собственные представительства в крупных промышленных городах России и стран СНГ.

Преимущества для наших заказчиков:

- работа по тендерам с 2012 года
- оформление банковских гарантий
- отсрочки платежей
- поставка электронных компонентов по проектным ценам
- инженерная поддержка проектов заказчиков
- сертификат системы менеджмента качества ISO 9001-2015
- необходимые сертификаты и лицензии

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