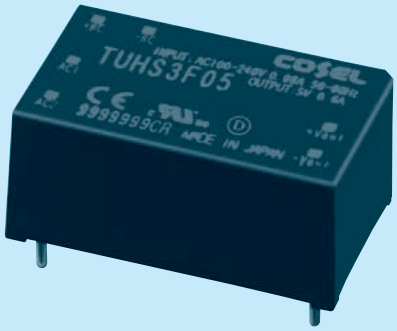
COSEL AC-DC Power Supplies PCB Mount Type

TUHS3

Ordering information

TUH	S	3	F	05	
①	②	③	④	⑤	

①Series name
②Single output
③Output wattage
④Universal Input
⑤Output voltage



Class II

✻Avoid short circuit between +BC and -BC. It may cause the failure of inside components.
✻To use TUHS, external components are required. Refer to the instruction manual for details.

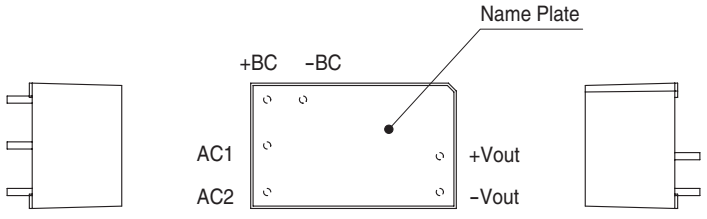
MODEL	TUHS3F05	TUHS3F12	TUHS3F24
MAX OUTPUT WATTAGE[W]	3.00	3.00	3.12
DC OUTPUT	5V 0.6A	12V 0.25A	24V 0.13A

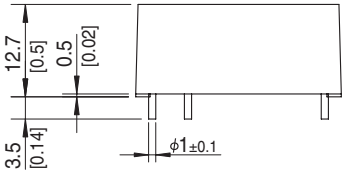
SPECIFICATIONS

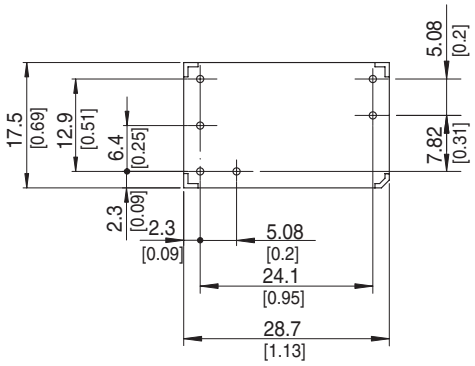
	MODEL		TUHS3F05	TUHS3F12	TUHS3F24
INPUT	VOLTAGE[V]		AC85 - 264 1φ DC120 - 370		
	CURRENT[A]	ACIN 100V	0.08typ (Io=100%)		
		ACIN 200V	0.05typ (Io=100%)		
	FREQUENCY[Hz]		50/60 (47 - 63)		
	EFFICIENCY[%]	ACIN 100V	79typ	81typ	81typ
		ACIN 200V	78typ	79typ	79typ
	INRUSH CURRENT		Limited by external components		
OUTPUT	VOLTAGE[V]		5	12	24
	CURRENT[A]		0.6	0.25	0.13
	LINE REGULATION[mV]		20max	48max	96max
	LOAD REGULATION[mV]		40max	100max	150max
	RIPPLE[mVp-p]	30 to 100% Load ✻1	120max	160max	200max
		0 to 30% Load AC85V - 240V ✻1	400max	480max	580max
	RIPPLE NOISE[mVp-p]	30 to 100% Load ✻1	160max	200max	240max
		0 to 30% Load AC85V - 240V ✻1	480max	560max	660max
	TEMPERATURE REGULATION[mV]	0 to +85℃	100max	180max	360max
		-40 to +85℃	150max	270max	480max
	DRIFT[mV]	✻2	20max	48max	96max
	OUTPUT VOLTAGE SETTING[V]		4.90 - 5.30	11.40 - 12.60	23.00 - 25.00
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recover automatically		
	OVERVOLTAGE PROTECTION[V]		5.50 - 8.00	13.20 - 19.20	26.40 - 38.40
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)		
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-40 to +85℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000 feet) max		
	STORAGE TEMP.,HUMID.AND ALTITUDE		-40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max		
	VIBRATION		10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis		
	IMPACT		196.1m/s² (20G), 11ms, once each along X, Y and Z axis		
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN60950-1		
	CONDUCTED NOISE		Complies with FCC-B,VCCI-B,CISPR-B,EN55022-B ✻3		
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Class A) (Not built-in to active filter)		
OTHERS	CASE SIZE/WEIGHT		28.7×12.7×17.5mm[1.13×0.50×0.69 inches] (W×H×D) / 15g max		
	COOLING METHOD		Convection / Forced air		

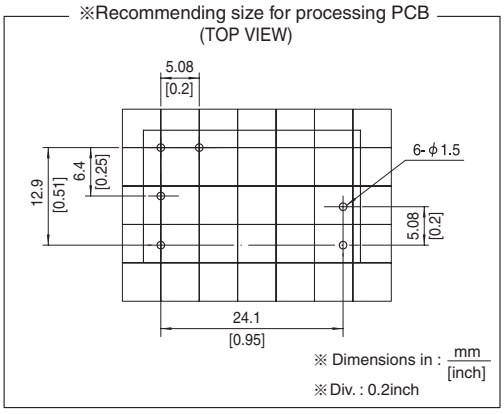
✻1 Refer to instruction manual for measuring method of electric characteristics.
✻2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated value.
✻3 Do not ground secondly circuit, in case of a standard adapted.
✻ Measured with 18μF capasitor as Cbc.

External view









※ Tolerance : ±0.5 [±0.02]
※ Weight : 15g max
※ Case material : PBT
※ Pin material : Copper
※ Plating treatment of pin : Lead free plating
※ Dimensions in mm, [ ]=inches