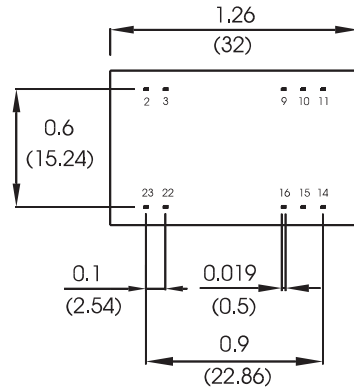


ISOLATED DC/DC CONVERTERS Compact P.W.M.

3CPR 2.5/3 WATT

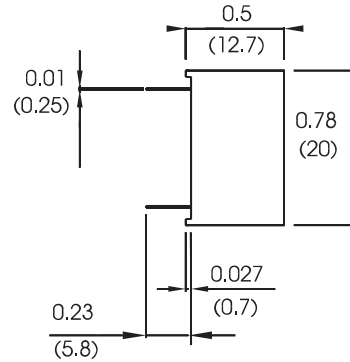


SINGLE DUAL
BOTTOM MEW



Tolerances : ± 0.004 Inches (Tolerances : ± 0.1 mm)

SIDE MEW



All dimensions in Inches (millimeters)

Pin	Single output
2	-Input
3	-Input
9	N/C
10	N/C
11	N/C
14	+Output
15	N/C
16	-Output
22	+Input
23	+Input

Pin	Dual output
2	-Input
3	-Input
9	Common
10	N/C
11	-Output
14	+Output
15	N/C
16	Common
22	+Input
23	+Input

MODEL	INPUT SPECIFICATIONS			OUTPUT SPECIFICATIONS				
	minimum	maximum	nominal	Vout +	Iout +	Vout -	Iout -	power
	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(mA)	(Vdc)	(mA)	(W)
3 CPR 2405 S	9,5	36,0	24	5	500			2,50
3 CPR 2412 S	9,5	36,0	24	12	250			3,00
3 CPR 2415 S	9,5	36,0	24	15	200			3,00
3 CPR 4805 S	18,0	72,0	48	5	500			2,50
3 CPR 4812 S	18,0	72,0	48	12	250			3,00
3 CPR 4815 S	18,0	72,0	48	15	200			3,00
3 CPR 2405 D	9,5	36,0	24	5	250	5	250	2,50
3 CPR 2412 D	9,5	36,0	24	12	125	12	125	3,00
3 CPR 2415 D	9,5	36,0	24	15	100	15	100	3,00
3 CPR 4805 D	18,0	72,0	48	5	250	5	250	2,50
3 CPR 4812 D	18,0	72,0	48	12	125	12	125	3,00
3 CPR 4815 D	18,0	72,0	48	15	100	15	100	3,00

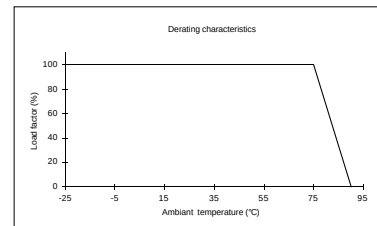
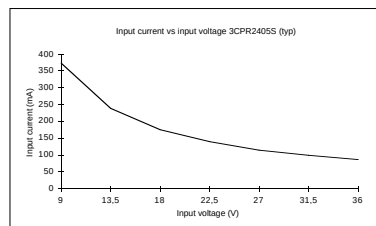
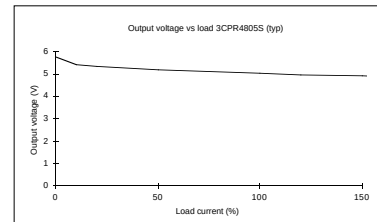
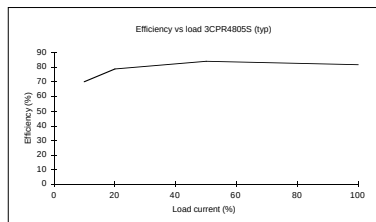
- NOTE 1 : These converters operate without any external components. However, in low noise applications it is commended that a low ESR capacitor be placed across the output or the input pins.
- Conducted noise filtering to EN 55022-B, VDE0871-B may be accomplished by putting an external capacitor. For more information, please contact factory.
- On dual output, the outputs are not isolated from each other and may be connected to provide 10 V, 24 V or 30 V.
- It is recommended to protect the input by fuses or other protection devices. Fuses are never supplied internally, and, without them, severe damage or even fire can occur in the event of a module failure. A slow fuse with a rating of 2X the I_{in} max is recommended.

ETRI 3CPR DC/DC Converters

2.5/3W

PARAMETERS	CONDITIONS	3 CPR					
Input voltage	Tc = - 40 °C to + 90 °C	24 V			48 V		
Input voltage range	Iout= 0 % to 100 %	9,5 V to 36 V			18 V to 72 V		
Input over voltage	0,1secondMax.	60 V			90 V		
No load input current	Iout= 0 mA : Vin= Nom.	5 mA			2 mA		
Output voltage	Iout= 100 % : Vin= Nom.	5 V	12 V	15 V	5 V	12 V	15 V
Output current (Single)	Vin= Min. to Max.	500 mA	250 mA	200 mA	500 mA	250 mA	200 mA
Output current (Dual)	Tc = - 40 °C to + 90 °C	±250 mA	±125 mA	±100 mA	±250 mA	±125 mA	±100 mA
Input current Max.	Vin= Min. : Iout= Max.	350 mA	400 mA		190 mA	210 mA	
Efficiency	Vin= Nom. : Iout= Max.	78 %	82 %		78 %	82 %	
Output voltage accuracy	Vin= Nom. : Iout= Max.	±2 %					
Load regulation (Iout= 50% to 100%)	Vin= Nom.	+ 3 % to 0					
Line regulation (Vin= Min. to Max.)	Iout= Max.	±0,5%					
Limitation range (Vin= Min. to Max.)	Vout= Vout - 4 %	180% of Iout Max.					
Output ripple peak to peak	BW= 10 Hz to 20 MHz	120 mV					
Input filter (see note 1)		PI filter					
Temperature coefficient	Tc = - 40 °C to + 90 °C	≤ 0,02 % per °C between - 40 °C to + 75 °C					
Input / Output isolation	1Minute	1500 VDC					
Isolation resistance	Vtest= 500 VDC	>10Gohm					
Input / Output coupling capacitor	Rh = 48 % : Tc = 25 °C	100 pF at 100 Hz					
Switching frequency	Vin= Nom. : Iout= Max.	170 KHz					
Operating temperature range	Ta:	- 40 °C to + 75 °C					
Storage temperature	Ts:	- 40 °C to + 105 °C					
Maximum package temperature	Tc:	+ 90 °C					
MTBF : MIL-HDBK-217, Rev E	Ground bening, Ta = 25 °C	1.300.000 h					
Weight	Gr	15Gr					

PERFORMANCE CURVES



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