

ECCO Electronics Technology Co.,ltd

20W DC-DC converter



ZOTT DO-DO CONTENED	ROBS
Typical Performance	
⊙Wide Input voltage range (2:1、4:1)	
⊙Typical Efficiency:85%	
⊙Switching frequency: 300KHz ± 30 KHz	
⊙ Overcurrent/Short circuit protection,Self-furbish	
⊙Input-output isolate	
⊙PCB Board in-line type installs	

Technology parameter Test condition:General Nominal Line,Tc=25 ℃, Rated resistant load unless other wisespecified

Input Feature	Min	Nom	Max	Notes
Input voltage(Vdc)	9	12	18	W 2:1
	18	24	36	W 2:1
	36	48	72	W 2:1
	72	110	144	W 2:1
	9	18	36	W 4:1
	18	36	72	W 4:1
Turn on voltage	3.5Vdc		+Vin	Converter
Turn off voltage	0		0.3Vdc	guaranteed on when REM pin is left open

Under voltage protect

Output Feature			
Voltage accuracy		Vo1;Vo2,Vo3	±1.0%, ±2.0%
Line regulation		Vo1;Vo2,Vo3	±0.2%, ±1.5%
Load regulation	20% ~ 100%	Vo1;Vo2,Vo3	±0.5%, ±4.0%
Ripple and noise	20MHz BM Vo≤5.0V, :	≤50mVp-p; Vo≥48V, ≤180mVp-p;	Other, ≤100mVp-p;
Dynamic response	25%	△Vo1/△t	±4.0/500us%
Voltage adjust	Standard output voltage	TRIM	±10%(adjustable)
Start delay time	typical		≤200mS

General Feature

	Efficien	cy No	ormal input , full	load	V	′o≤5.0V,80%	typical	Vo>5.0V,8	7% typical
Sı	witching fre	quency				300KHz ty	pical	Max 33	0KHz
Ор	erating tem	perature	Free air			Industrial I	evel	-25℃ ~	+55 ℃
St	orage temp	perature						-40℃ ~ ·	+105℃
Ma	x case tem	perature						+95	$^{\circ}$ C
F	Relative hu	midity						10%~	90%
	case mate	erial						Metal	case
	Isolation Vo	oltage		500Vd	c ≤0.5m	A/1min,500	Vdc ≤0.5mA/1m	in	
	MTBF					2X10 ⁵ Hrs	3		
roduct	t Nomina	ation Method							
example				25 – 48 ③ (05 I ⑥ ⑦			
1)	Wide inpu	ut voltage: 2: 1			6	output vol	tage		
2	Power ad	laptation mode: D (D0	C-DC)			I:Dual Ro	ute output Isolat	e	
3	Output po	ower(W)			7	W:Super	Nide input volta	ge	
4		put voltage			(I)				
(5)	_	route_output,_D=Dual put, Q=Quadruple outpu	· ·	T=Triple					
roduct	t Prograi	m							
					(Output volta	ge / current		
PAF	RT#	Input voltage range	VO1	I		V	D2	V	D3
			V	mA		V	mA	V	mA
LD20-1	12S3V3		3.3V	4000mA	\				
LD20-	12S05		5V	4000mA	\				
LD20-	12S09		9V	2220mA					
LD20-	12S12		12V	1660mA	\				
LD20-	12S15		15V	1330mA					
LD20-	12S24	12V(9~18V)	24V	830mA					
LD20-	12S48		48V	410 mA	·				
LD20-1	12D3V3		+3.3V	2000 mA	\	-3.3V	2000 mA		
LD20-	12D05		+5V	2000 mA	\	-5V	2000 mA		
LD20-	12D09		+9V	1110 mA	\	-9V	1110 mA		
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-12V

830 mA

830 mA

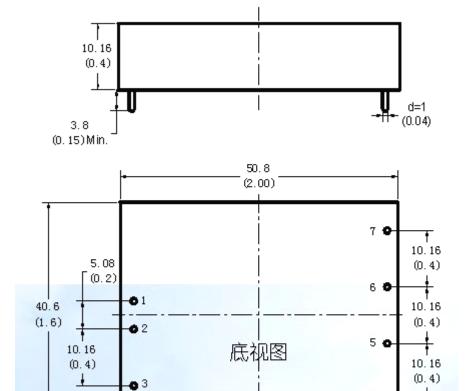
+12V

LD20-12D12

					-	
LD20-12D15		+15V	660 mA	-15V	660 mA	
LD20-12D24		+24V	410 mA	-24V	410 mA	
LD20-18S3V3		3.3V	4000mA			
LD20-18S05		5V	4000mA			
LD20-18S09		9V	2220mA			
LD20-18S12		12V	1660mA			
LD20-18S15		15V	1330mA			
LD20-18S24		24V	830mA			
LD20-18S48	18V(9~36V)	48V	410 mA			
LD20-18D3V3		+3.3V	2000 mA	-3.3V	2000 mA	
LD20-18D05		+5V	2000 mA	-5V	2000 mA	
LD20-18D09		+9V	1110 mA	-9V	1110 mA	
LD20-18D12	_	+12V	830 mA	-12V	830 mA	
LD20-18D15		+15V	660 mA	-15V	660 mA	
LD20-18D24		+24V	410 mA	-24V	410 mA	
LD20-24S3V3		3.3V	4000mA			
LD20-24S05		5V	4000mA			
LD20-24S09	24V (18~36V)	9V	2220mA			
LD20-24S12		12V	1660mA			
LD20-24S15		15V	1330mA			
LD20-24S24		24V	830mA			
LD20-24D3V3		+3.3V	2000 mA	-3.3V	2000 mA	
LD20-24D05		+5V	2000 mA	-5V	2000 mA	
LD20-24D09		+9V	1110 mA	-9V	1110 mA	
LD20-24D12		+12V	830 mA	-12V	830 mA	
LD20-24D15		+15V	660 mA	-15V	660 mA	
LD20-24D24		+24V	410 mA	-24V	410 mA	
LD20-36S3V3		3.3V	4000mA			
LD20-36S05		5V	4000mA			
LD20-36S09	261/ /40, 701/0	9V	2220mA			
LD20-36S12	36V (18~72V)	12V	1660mA			
LD20-36S15		15V	1330mA			
LD20-36S24		24V	830mA			
	i	•			•	

LD20-36S48		48V	410 mA			
LD20-36D3V3		+3.3V	2000 mA	-3.3V	2000 mA	
LD20-36D05		+5V	2000 mA	-5V	2000 mA	
LD20-36D09		+9V	1110 mA	-9V	1110 mA	
LD20-36D12		+12V	830 mA	-12V	830 mA	
LD20-36D15		+15V	660 mA	-15V	660 mA	
LD20-36D24		+24V	410 mA	-24V	410 mA	
LD20-48S3V3		3.3V	4000mA			
LD20-48S05		5V	4000mA			
LD20-48S09		9V	2220mA			
LD20-48S12		12V	1660mA			
LD20-48S15		15V	1330mA			
LD20-48S24		24V	830mA			
LD20-48S48	48V (36~72V)	48V	410 mA			
LD20-48D3V3		+3.3V	2000 mA	-3.3V	2000 mA	
LD20-48D05		+5V	2000 mA	-5V	2000 mA	
LD20-48D09		+9V	1110 mA	-9V	1110 mA	
LD20-48D12		+12V	830 mA	-12V	830 mA	
LD20-48D15		+15V	660 mA	-15V	660 mA	
LD20-48D24		+24V	410 mA	-24V	410 mA	
LD20-110S3V3		3.3V	4000mA			
LD20-110S05		5V	4000mA			
LD20-110S09		9V	2220mA			
LD20-110S12		12V	1660mA			
LD20-110S15		15V	1330mA			
LD20-110S24		24V	830mA			
LD20-110S48	110V (72~144V)	48V	410 mA			
LD20-110D3V3		+3.3V	2000 mA	-3.3V	2000 mA	
LD20-110D05		+5V	2000 mA	-5V	2000 mA	
LD20-110D09		+9V	1110 mA	-9V	1110 mA	
LD20-110D12		+12V	830 mA	-12V	830 mA	
LD20-110D15		+15V	660 mA	-15V	660 mA	
LD20-110D24		+24V	410 mA	-24V	410 mA	

Mechanical Dimension

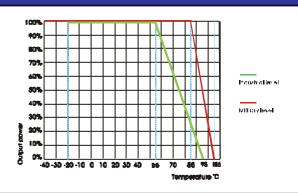


BOTTON VIEW

45.72 (1.8)

UNIT:mm(inch)

Temperature Curve



Mechanical Data

Packing code	LxWxH	Packing No.
20W	50.80 x 25.40 x 12.70mm(2*1*0.5inch)	

Pin Assignment

PIN NO.	1	2	3	4	5	6	7		
S	+Vin	-Vin	REM	TRIM	GND	Vo1	NP		

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*Note: The power modules such as the definition of the pin does not match with the hand book,please refer to the actual item.