



Innovations Embedded

Board No:BM2P094FEVK-002

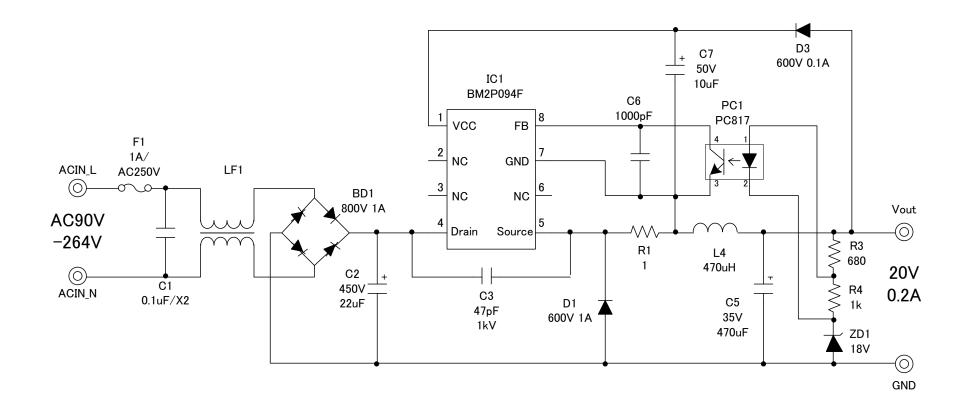
Reference Board Specification

Description		Symbol	Min	Тур	Max	Unit	Condition
Input	Voltage	Vin	90		264	Vac	
	Frequency	fac	47	50/60	63	Hz	
	No Load Input Power				100	mW	Vin: AC100V/230V
Output	Voltage	Vout	19	20	21	٧	
	Current	Iout	0.2			Α	
	Ripple Voltage	Vripple			100	mV	20MHz Bandwidth
	Efficiency		75			%	Output: 20V 0.2A





90mm

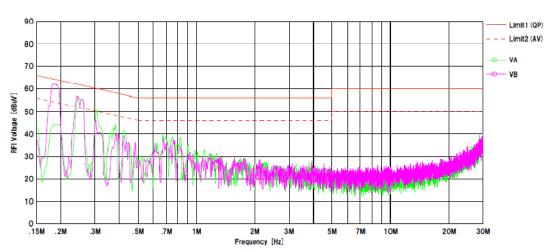


Item	Spec	Parts name	Maker	
C1	0.1uF/X2	LE104	Okaya	
C2	10uF/400V	22uF/450V		
C3	47pF/1kV	CC45SL3AD470	TDK	
C5	Low-Z 470uF/35V	Low-Z 470uF/35V		
C6	1000pF/16V	1000pF/16V 1608		
C7	10uF/50V	10uF/50V		
BD1	800V/1A	D1UBA80	Shindengen	
D1	FRD 600V 0.8A	RFN1L6S	Rohm	
D3	600V/0.1A	1SR154-600	Rohm	
ZD1	18V	UDZSTE-1718B	Rohm	
F1	1A/AC250V	3691100****	Littlefuse	
LF1		SU9VF-02100	NEC Tokin	
L4	470uH/0.8A	744 7480 471	Wurth	
IC1		BM2P094F	Rohm	
R1	1Ω/0.5W	MCR25JZHJ1R0	Rohm	
R3	680Ω	MCR10EZPJ681	Rohm	
R4	1kΩ	MCR10EZPJ102	Rohm	
PC1		PC817		

Vin(V)	Pin(W)	Vout(V)	Iout(A)	Pout(W)	η (%)
	0.046	19.90	0	0	-
	0.271	19.98	0.01	0.200	73.7
90	1.199	19.92	0.05	0.996	83.1
90	2.369	19.91	0.1	1.991	84.0
	3.518	19.90	0.15	2.985	84.8
	4.703	19.88	0.2	3.976	84.5
	0.046	19.91	0	0	-
	0.273	19.92	0.01	0.199	72.9
100	1.205	19.93	0.05	0.997	82.7
100	2.376	19.92	0.1	1.992	83.9
	3.527	19.92	0.15	2.988	84.7
	4.702	19.91	0.2	3.982	84.7
	0.056	19.96	0	0	-
	0.294	19.97	0.01	0.200	67.9
230	1.272	19.98	0.05	0.999	78.6
230	2.449	19.99	0.1	1.999	81.6
	3.651	20.00	0.15	3.000	82.2
	4.945	19.99	0.2	3.998	80.9
	0.058	19.94	0	0	-
	0.301	19.95	0.01	0.199	66.3
264	1.261	19.96	0.05	0.998	79.1
204	2.472	19.98	0.1	1.998	80.8
	3.680	19.98	0.15	2.997	81.4
	4.934	19.97	0.2	3.994	80.9

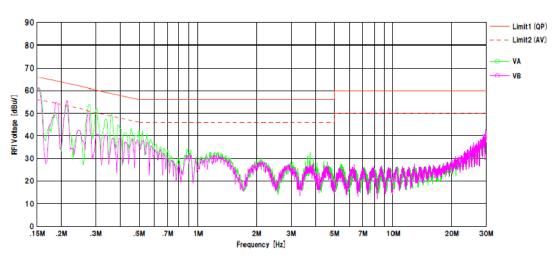
Vin: AC100V/50Hz Vout: 20V 0.2A





Vin: AC230V/50Hz Vout: 20V 0.2A

Limit1 : CISPR Pub 22 Class B Limit2 : CISPR Pub 22 Class B (AV)



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