

TECHNICAL DATA

THE AP9117MKXX-5W IS A 28V DC POWERED, 5 WATT UTILITY POWER SUPPLY WITH A STATUS OUTPUT AND SHUTDOWN INPUT. THE AP9117MKXX-5W IS INTENDED FOR USE WITH PORTABLE ELECTRONIC DEVICES (PEDs),

THE 'MKXX' PART NUMBER SUFFIX DEFINES THE OUTPUT VOLTAGE (+3.3V, +5V, +12V or +15V)

GENERAL SPECIFICATION

POWER REQUIREMENTS: +28V POWERED (6W MAX)

WEIGHT: 0.550 kg MAX

TEMPERATURE:

OPERATING TEMPERATURE -45 TO +70 DEGREES C  
 STORAGE TEMPERATURE -55 TO +85 DEGREES C

PRODUCT SPECIFICATION

AP9117MKXX-5W-PS-R2

INTERFACE CONTROL DOCUMENT (ICD)

AP9117MKXX-5W-ICD-R2

SOFTWARE

THE AP9117MKXX-5W DOES NOT CONTAIN A SOFTWARE ASSEMBLY

COOLING

FREE AIR CONVECTION

PRODUCT REVISION IDENTIFICATION

THE PRODUCT FOR WHICH THIS DOCUMENT RELATES SHALL BE IDENTIFIED WITH THE MAJOR REVISION NUMBER ONLY.

FOR EXAMPLE

DOCUMENT REVISION 2.03 REFERS TO PRODUCT REVISION 2

MINOR REVISIONS ARE RESERVED FOR DOCUMENTATION UPDATES THAT DO NOT AFFECT FORM FIT OR FUNCTION OF THE PRODUCT.

THIRD ANGLE PROJECTION TO B.S. 8888.  
 FOR GENERAL TOLERANCES & FINISHES  
 SEE NGINITY STANDARD NCPO01.



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APPROVED CHECKED	MATERIAL:- PRINCIPALLY ALUMINIUM ALLOY	FINISH:- ALOCROM & BLACK POWDER COAT	TOLERANCES .XX +/-0.75 .XXX +/-0.25	ISSUE DATE	1 19.01.09	2 20.02.08											
LJC				CHANGE	NEW	CRO0169											
DRAWN PDC			SCALE: 1:1 DIMS: MM	TITLE PED POWER SUPPLY MODULE (5W SINGLE OUTPUT)				DRAWING NUMBER AP9117MKXX-5W SHEET 1 OF 2				SIZE A2					

ELECTRICAL CONNECTIONS

PIN	FUNCTION	NOTES
1	+28VDC POWER INPUT	+18 TO +32 VDC (+28V NOMINAL)
2	0V POWER INPUT	
3	CHASSIS	
4	STATUS OUTPUT	NORMAL=GROUNDED TO PIN 2, FAULT=OPEN CCT.
5	0V UTILITY OUTPUT COMMON	OUTPUT COMMON ON ALL VARIANTS
6	SHUTDOWN INPUT	NORMAL=OPEN CCT, SHUTDOWN=GROUNDED TO PIN 2
7	RESERVED	
8	RESERVED	
9	RESERVED	
10	RESERVED	
11	RESERVED	
12	RESERVED	
13	RESERVED	
14	RESERVED	
15	RESERVED	
16	RESERVED	
17	RESERVED	
18	RESERVED	
19	RESERVED	
20	+3.3V UTILITY OUTPUT	MK3,3 VARIANT ONLY
21	+5V UTILITY OUTPUT	MK05 VARIANT ONLY
22	RESERVED	
23	RESERVED	
24	RESERVED	
25	RESERVED	
26	RESERVED	
27	RESERVED	
28	RESERVED	
29	RESERVED	
30	RESERVED	
31	RESERVED	
32	RESERVED	
33	RESERVED	
34	RESERVED	
35	RESERVED	
36	+12V UTILITY OUTPUT	MK12 VARIANT ONLY
37	+15V UTILITY OUTPUT	MK15 VARIANT ONLY

NOTES

+28V DC POWER IS SUPPLIED TO THE AP9117MKXX-5W ON PINS 1 & 2 (2 AMP SUPPLY)

THE AP9117MKXX-5W OUTPUT VOLTAGE IS DEFINED BY THE 'MKXX' PART NUMBER SUFFIX, FOR EXAMPLE AN AP9117MK05-5W HAS A 5 VOLT OUTPUT AND AN AP9117MK12-5W HAS A 12 VOLT OUTPUT ETC.

THE AP9117MKXX-5W HAS A SINGLE UTILITY OUTPUT PERMITTING ONE PORTABLE ELECTRONIC DEVICE (PED) TO BE CONNECTED AT ANY ONE TIME.

PED DEVICES TAKE POWER FROM THE UTILITY OUTPUTS (MK05 PIN 21, MK12 PIN 36 ETC.) WITH RESPECT TO 0V OUTPUT COMMON (PIN 5).

THE AP9117MKXX-5W PROVIDES A STATUS OUTPUT ON PIN 4. WHEN THE OUTPUT OF THE AP9117MKXX-5W IS VALID, PIN 4 IS SWITCHED TO PIN 2 (0V INPUT) WHEN INVALID THE PIN 4 IS OPEN CCT. THE AP9117MKXX-5W STATUS OUTPUT IS CAPABLE OF SINKING UP TO 100mA

THE AP9117MKXX-5W ALSO PROVIDES A SHUTDOWN INPUT ON PIN 6. THIS PIN MUST BE GROUNDED TO PIN 2 TO ENTER SHUTDOWN MODE. ALTERNATIVELY THIS PIN MAY BE LEFT OPEN CCT. FOR NORMAL OPERATION

PRODUCT FEATURES

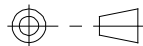
REVERSE POLARITY PROTECTED

INTERNAL OVER CURRENT AND THERMAL FUSE PROTECTED

AUTOMATIC UNDER VOLTAGE SHUTDOWN

CONTINUOUS SHORT CIRCUIT PROTECTION WITH AUTO RECOVERY

THIRD ANGLE PROJECTION TO B.S. 8888.  
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