

**COMPONENTS JSR-03 Ultra low noise stabilized power supply**

Comp.	9V Regulator	5V Regulator	Remark
R1	1k	470R	1% metal film
R2	1k	1k	1% metal film
R3	3k32	1k8	1% metal film
R4	8k2	3k32	1% metal film
R5	3k32	3k32	1% metal film
R6	39k2	121k	1% metal film
R7	470R	470R	1% metal film
R8	680R	390R	1% metal film
R9	680R	390R	1% metal film
R10	120R	270R	1% metal film
R11	47R	-	1% metal film
R12	-	47R	1% metal film
R13	6k8	3k92	1% metal film
R14	100R	100R	1% metal film
R15	-	-	
R16	-	-	
C1	100uF/35V	100uF/35V	Rubycon ZA Ultra Low impedance
C2	100nF	100nF	EPCOS MKT
C3	100uF/25V	100uF/25V	Nichicon PM Extremely Low Impedance
C4	100uF/25V	100uF/25V	Nichicon PM Extremely Low Impedance
C5	100nF	100nF	EPCOS MKT
C6	100uF/25V	100uF/25V	Nichicon PM Extremely Low Impedance
C7	100uF/25V	100uF/25V	Nichicon PM Extremely Low Impedance
C8	100nF	100nF	EPCOS MKT
C9	220pF	220pF	Ceramic
C10	100nF	100nF	EPCOS MKT
C11	100nF	100nF	EPCOS MKT
C12	100uF/25V	100uF/25V	Philips general purpose
C13	-	-	
C14	-	-	
T1	BC560C	-	
T2	-	BC860C	
T3	BD139	BD139	
T4	-	-	
T5	-	BC860C	
T6	BC560C	-	
H1	5mm LED red	5mm LED red	
DZ1	4V7/500mW	3mm LED red	
IC1	LT1086	LT1086	Low drop regulator
IC2	LMV431IZ	LMV431IZ	1.24V reference
IC3	-	-	
IC4	AD825ARZ	AD825ARZ	SM OP-AMP JFET high speed
<b>Testpoints</b>			
Uin	16,00V	16,00V	Input voltage during test
Rload	100R	50R	Load during test
IC1-2	11,57V	8,96V	Pre-regulated voltage
Uuit	<b>9,00V</b>	<b>5,01V</b>	Output voltage
T1(T2)-b	9,91V	5,90V	
T1(T2)-e	10,58V	6,59V	
T1(T2)-c	9,66V	5,70V	
T5(T6)-e	4,78V	4,018V	
IC4-6	4,14V	3,357V	OP-AMP output voltage
IC4-7	8,72V	7,30V	OP-AMP supply voltage
IC2-3	4,51V	2,509V	reference voltage
Uin-min	12,6V		Minimal input voltage