



STK5332

Thick Film Hybrid IC

TENTATIVE

Case Outline : 8 pins (See attached case outline drawing.)

Function : Series regulator

Application : Voltage regulator for VTR use

Features : 3 outputs

Absolute Maximum Ratings at Ta=25°C		Vo1	Vo2	Vo3	unit
Storage Temperature	Tstg	-30 to +105			°C
Operating Case Temperature	Tcmax	105			°C
Maximum DC Input Voltage	Vin(DC)max	30			V
Maximum Output Current*1	Iomax Average/Peak	1/2.5	1/2.5*2	0.5	A
Junction Temperature	Tjmax	150			°C
Thermal Resistance	θj-c	4.5	-	24	°C/W

Electrical Characteristics at Ta=25°C, See Test Circuit.

	Condition	Vo1	Vo2	Vo3	unit
Output Voltage Setting	Condition 1	13.0 ±0.2	6.05 ±0.2	5.1 ±0.08	V
Ripple Voltage	Condition 1	5	2	2	mVppmax
Output Cutoff Residual Voltage	Condition 1 *3	0.1	6.02 ±0.2	0.1	Vmax
Temperature Coefficient	Condition 1	0.02	0.035	0.02	%/°Cmax
Input Regulation	Condition 2	9	10	10	mV/Vmax
	Condition 3	1	1	1	
Load Regulation	Condition 4	35	10	3500	mV/Amax
Minimum Input-Output Voltage Difference	Condition 5	1.2	1.2	-	Vmax
Vo3 Short Current	Condition 6	-	-	0.45	Amax

Condition 1: VB=45V ripple 6Vpp

Vin(DC)1=18V Io1=0.5A Input ripple 2.5Vpp

Vin(DC)2=14V Io2=0.3A, Io3=70mA Input ripple 1.6Vpp

Condition 2: VB=45V±7V

Vin(DC)1=18V Io1=0.5A

Vin(DC)2=14V Io2=0.3A, Io3=70mA

Condition 3: VB=45V

Vin(DC)1=18V±4V Io1=0.5A

Vin(DC)2=14V±3V Io2=0.3A, Io3=70mA

Condition 4: VB=45V

Vin(DC)1=18V Io1=0 to 1A, Io3=50to100mA

Vin(DC)2=14V Io2=0 to 1A

Condition 5: VB=45V Io1=Io2=1A

Condition 6: VB=45V Vin(DC)1=18V Io1=0.5A

Vin(DC)2=14V Io2=0.3A

*1 The time allowed for the peak current to flow is 0.1sec. or less.

*2 Must be used within the ASO range of external transistor Tr1.

*3 External setting available

These specifications are subject to change without notice

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Outline

