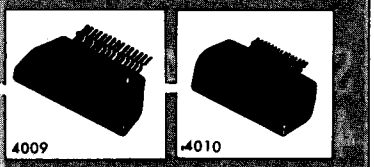
Case outline

STK-433,[4009] 435,[4009] 436,[4009] 437,[4010] 439,[4010] 441,[4010] 443[4010]

thick film hybrid IC

2-CHANNEL 5 to 25W min AF POWER AMP



Features

- © IMST, 2 Channels by 1 Power Supply.
- Small shock noise because of direct coupling emitter feedbacked.
- STK-433-105, 435-105, 436-105 and 441-105 are for the use of T_C=105°C.
- AF output power STK-433: 5W min., STK-435: 7W min., STK-436: 10W min., STK-437: 10W min., STK-439: 15W min., STK-411: 20W min., STK-443: 25W min.

MAXIMUM RATINGS/Ta=25°C

		STK-433	STK-435	STK-436	STK-437	STK-439	STK-441	STK 443	unit
Maximum Supply Voltage (pin 7 to 4 or 12)	V_{CC} max	32	39	50	50	56	63	70	V
Operating Case Temperature	T_C	90	90	90	90	85	85	85	°C
Storage Temperature	Tstg	→	→	→	→	→	→	−30 to 100°C	
Allowable Load Shorting Time (in appointed condition)	t_s	→	→	→	→	→	→	2	sec

RECOMMENDED OPERATION CONDITION/Ta=25°C

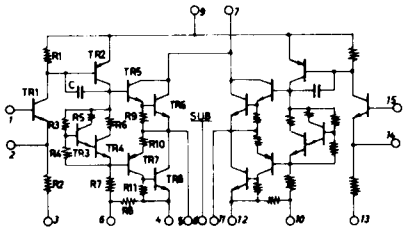
		STK-433	STK-435	STK-436	STK-437	STK-439	STK-441	STK-443	unit
Recommended Supply Voltage	V_{CC}	23	27	32	33	39	44	49	V
Load Resistance	R_L	→	→	→	→	→	→	8	ohm

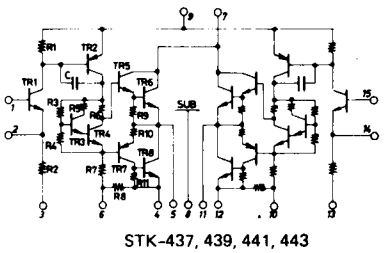
OPERATION CHARACTERISTICS/Ta=25°C, recommended condition, Rg=600 ohm, VG=40dB

			STK-433	STK-435	STK-436	STK-437	STK-439	STK-441	STK-443	unit
Quiescent Current	I_{CCO}		→	→	→	→	→	→	120 mAmax	
Output Power	P_O	THD=1% f=1kHz	5	7	10	10	15	20	25	Wmin
Distortion	THD	Po=0.1W, f=1kHz	0.5	0.5	0.3	0.2	0.2	0.3	0.3	%max
Input Resistance	r_i	Po=0.1W	110k	110k	120k	110k	110k	110k	110k	ohm

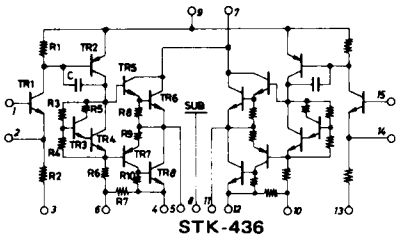
EQUIVALENT CIRCUIT

STK-433,435



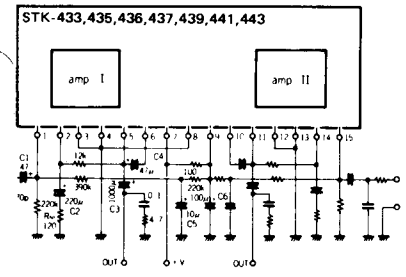


STK-437, 439, 441, 443



STK-436

APPLICATION: AF Power Amp.



	STK-433	STK-435	STK-436	STK-437	STK-439	STK-441	STK-443
C1	16V	25V	35V	35V	35V	30V	35V
C2	10V	25V	25V	25V	25V	25V	35V
C3	16V	25V	35V	35V	35V	50V	50V
C4	16V	16V	25V	25V	25V	35V	50V
C5	25V	25V	35V	35V	35V	35V	50V
C6	25V	25V	50V	50V	63V	63V	80V

See the operation characteristics on this specification.

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