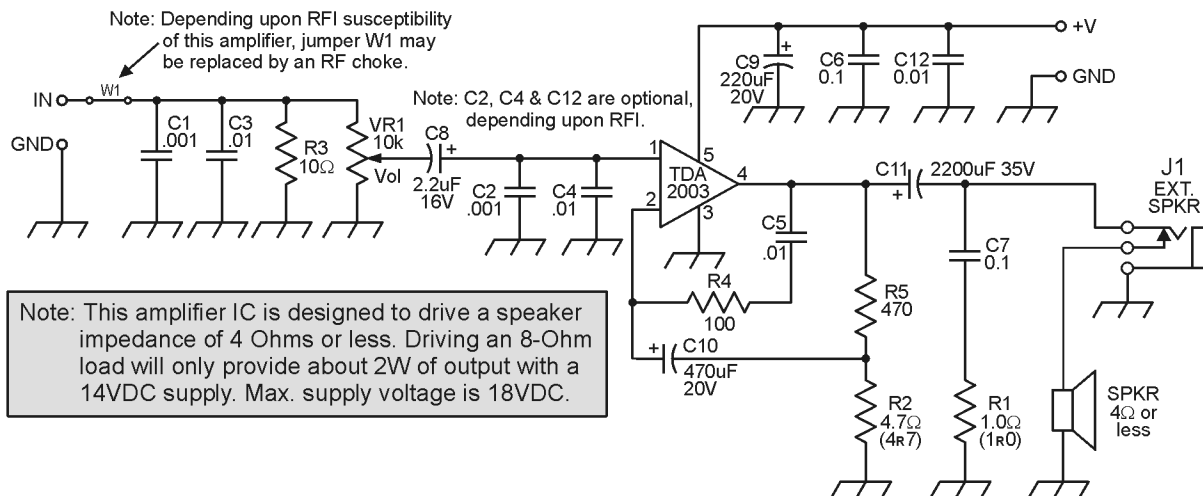




# TDA2003 5W-7W AF Amp

## Parts List



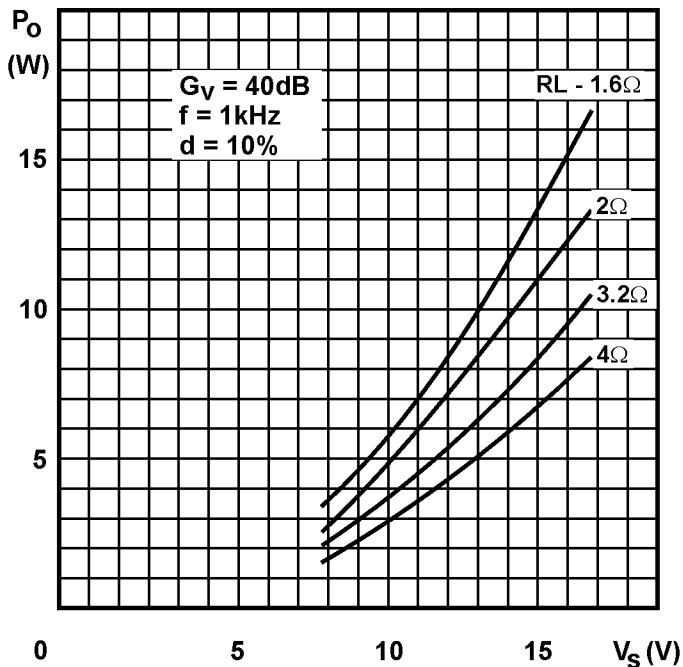
Part #	Component Description	Mouser Electronics Part #
<b>NOTE:</b> C2, C4, & C12 are optional, depending upon the RF susceptibility of the amplifier.		
C1, C2	.001 uF 50V Xicon Ceramic Disk Cap 0.2" lead spacing	140-50Z5-102M
C3-C5, C12	.01 uF 50V Xicon Ceramic Disk Cap 0.2" lead spacing	140-50Z5-103M
C6, C7	0.1 uF 50V AVX Radial Monolithic Cap 0.2" lead spacing	581-SR215C104K
C8	2.2uF 10VDC Xicon Axial Lead Electrolytic Cap	140-XAL10V2.2
C9	220uF 25VDC Xicon Axial Lead Electrolytic Cap	140-XAL25V220
C10	470uF 10VDC Xicon Axial Lead Electrolytic Cap	140-XAL10V470
C11	2,200uF 25VDC Xicon Axial Lead Electrolytic Cap	140-XAL25V2200
R1	1.0Ω (1R0) 1/4W Xicon 5% carbon film resistor	291-1.0
R2	4.7Ω (4R7) 1/4W Xicon 5% carbon film resistor	291-4.7
R3	10Ω 1/4W 5% Xicon 5% carbon film resistor	291-10
R4	100Ω 1/4W 5% Xicon 5% carbon film resistor	291-100
R5	470Ω 1/4W 5% Xicon 5% carbon film resistor	291-470
J1	AMPMODU Dual Row 6-pin rt. angle PCB-mount header	571-102617-1
J2	DGS 3.5mm Mono Phone Jack w/Normally-Closed sw. PCB-mount	16PJ528
Mating components for (J1) header listed above:		
P1	AMPMODU Double Row Housing w/detent latching	571-876312
	AMPMODU MOD. IV Receptacle Contacts for J1 above (6 req.)	571-877567
U1	TDA2003V STMicroelectronics Audio Amplifier IC	511-TDA2003V
VR1	10K Tyco Single Turn Cermet Trimmer Long Horiz. Shaft	323-409V-10K
OR		
VR1	10K Tyco Single Turn Cermet Trimmer Long Vert. Shaft	323-409H-10K

# Factory Specification Performance Data

source: <http://www.st.com/stonline/books/pdf/docs/1449.pdf>

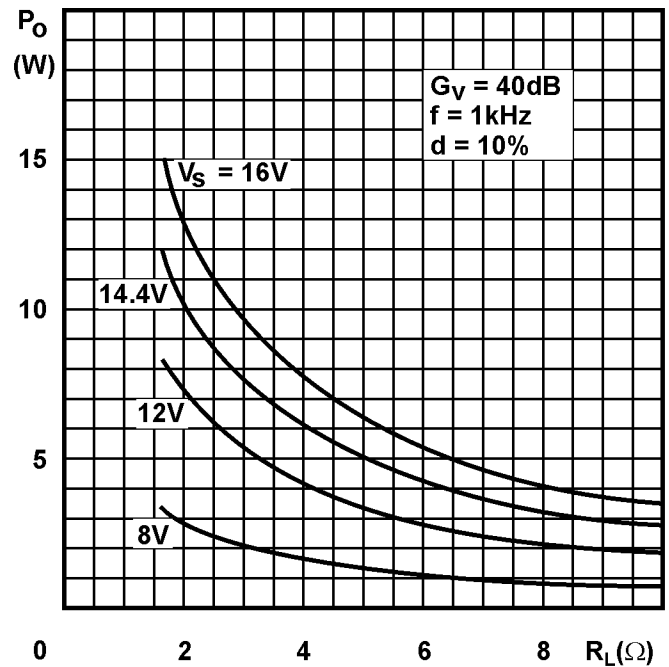
## TDA2003

Output power vs. supply voltage



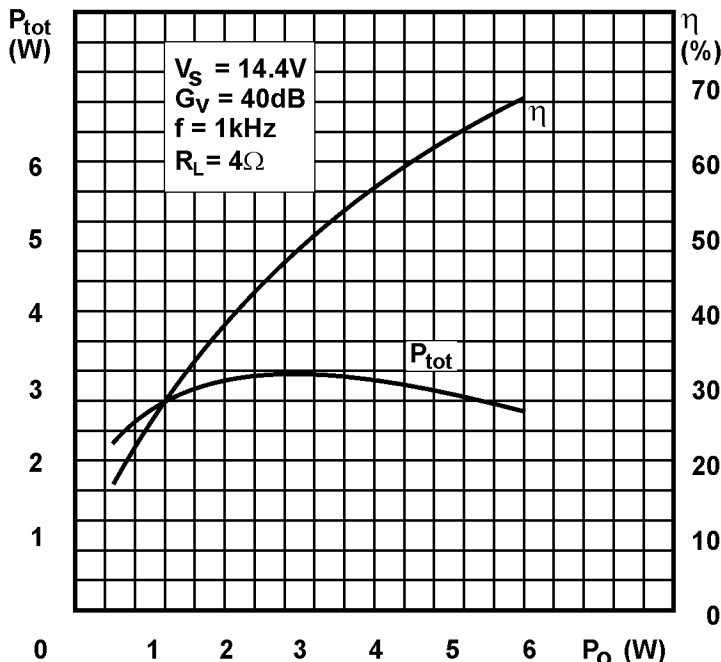
## TDA2003

Output power vs. load resistance



## TDA2003

Power dissipation and efficiency vs. output power ( $R_L = 4\Omega$ )



## TDA2003

Power dissipation and efficiency vs. output power ( $R_L = 2\Omega$ )

