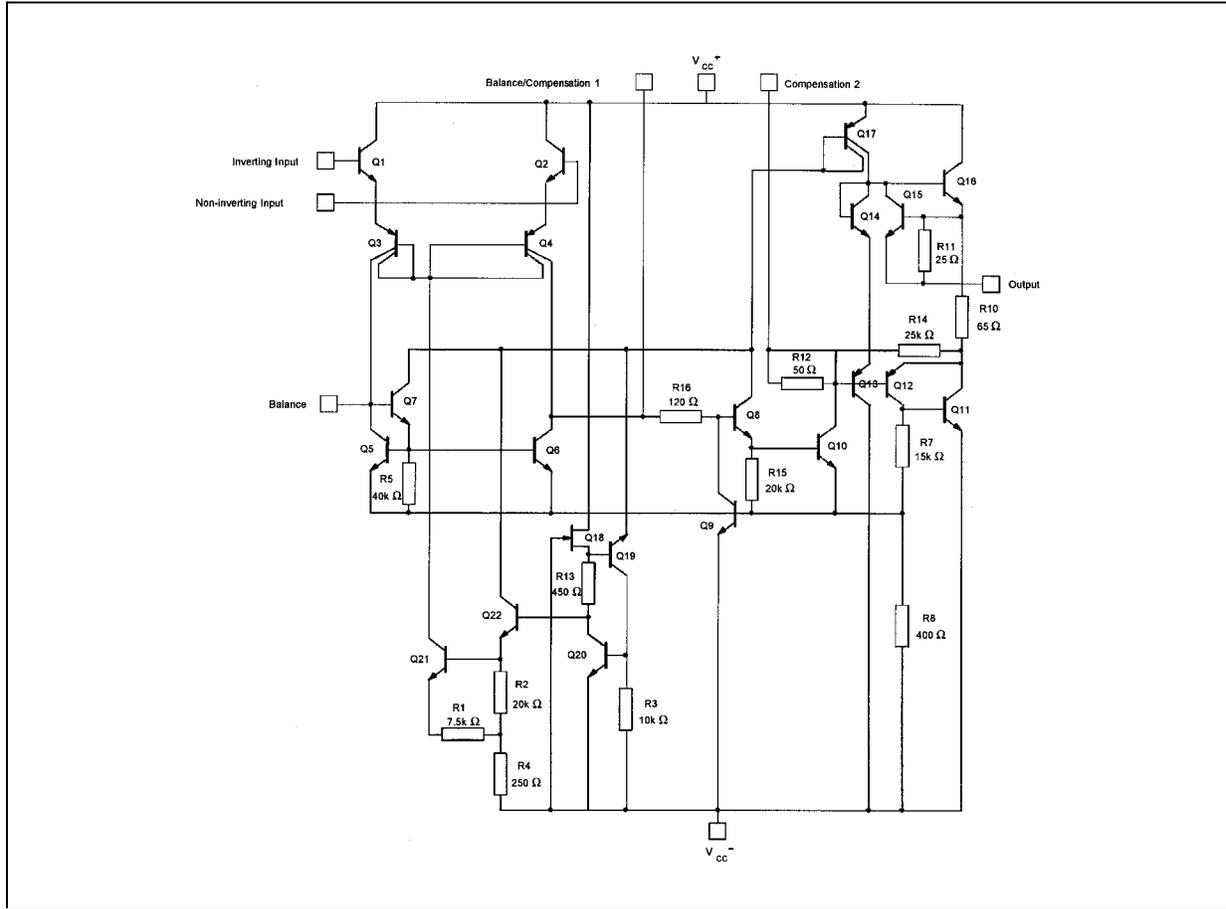




**SCHEMATIC DIAGRAM**

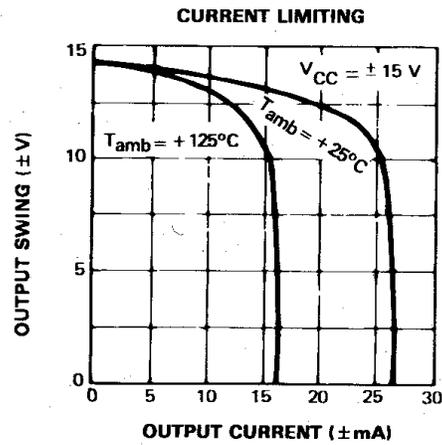
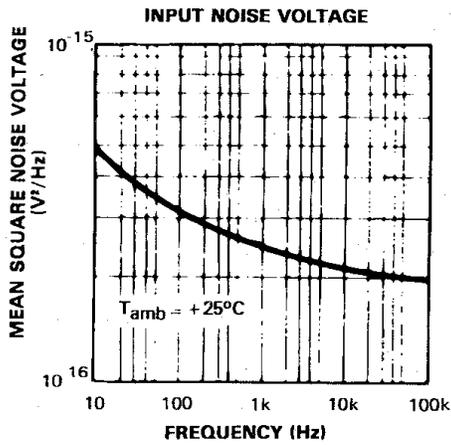
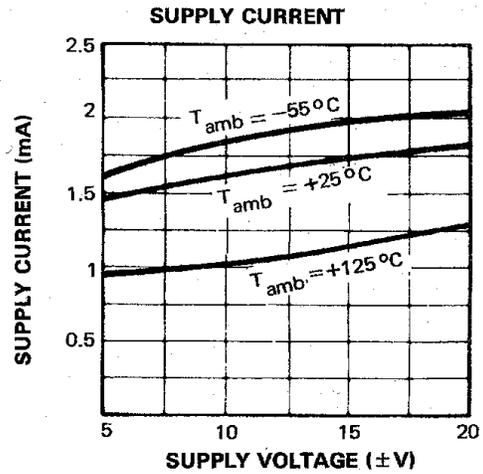
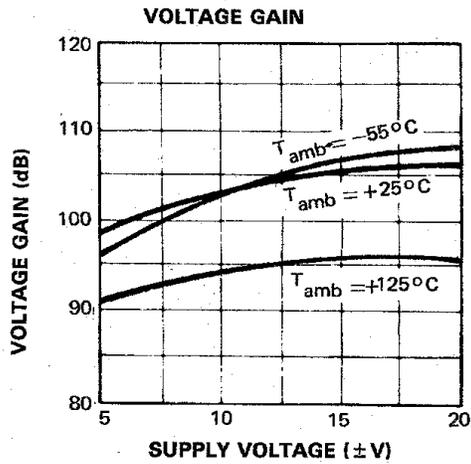


**ABSOLUTE MAXIMUM RATINGS**

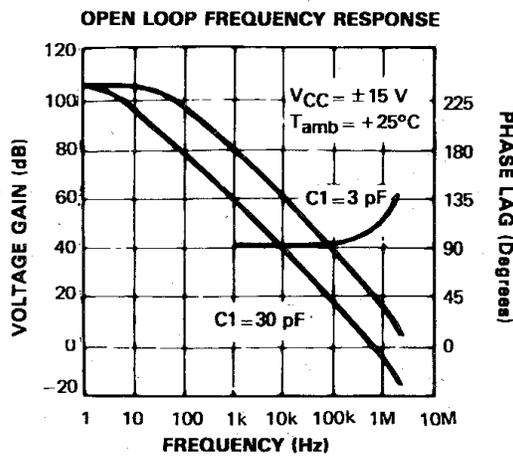
Symbol	Parameter	UA748M	UA748I	UA748C	Unit
$V_{CC}$	Supply voltage		$\pm 22$		V
$V_{id}$	Differential Input Voltage		$\pm 30$		V
$V_i$	Input Voltage		$\pm 15$		V
$P_{tot}$	Power Dissipation <sup>1)</sup>		500		mW
	Output Short-circuit Duration		Infinite		
$T_{oper}$	Operating Free-air Temperature Range	-55 to +125	-40 to +105	0 to +70	°C
$T_{stg}$	Storage Temperature Range		-65 to +150		°C

1. Power dissipation must be considered to ensure maximum junction temperature ( $T_j$ ) is not exceeded.

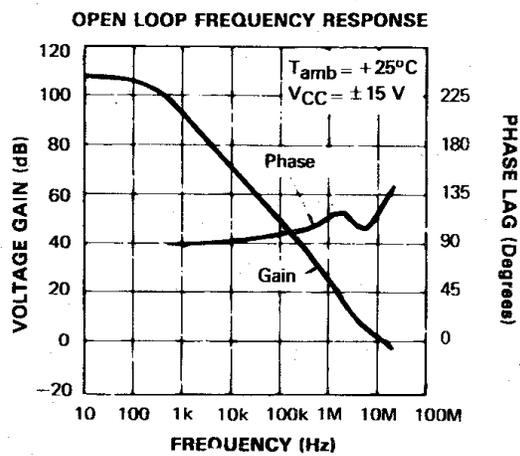


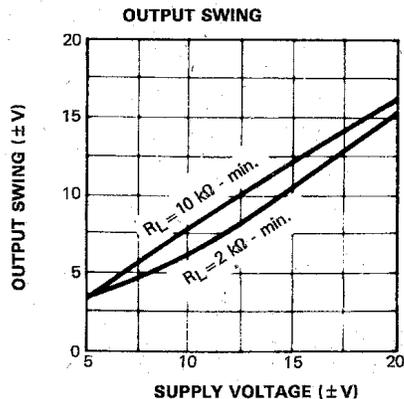
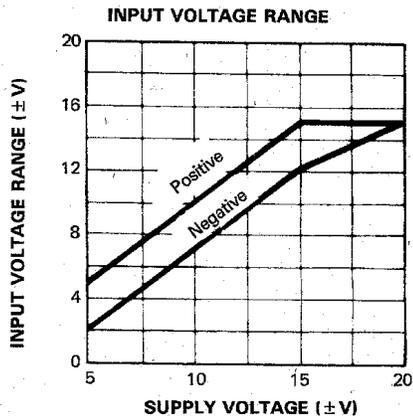


## SINGLE POLE COMPENSATION

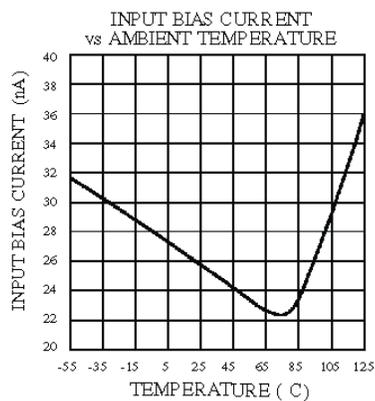
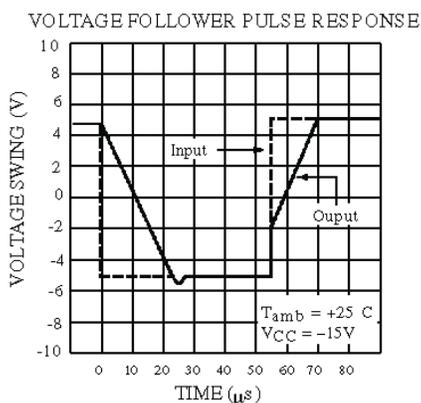
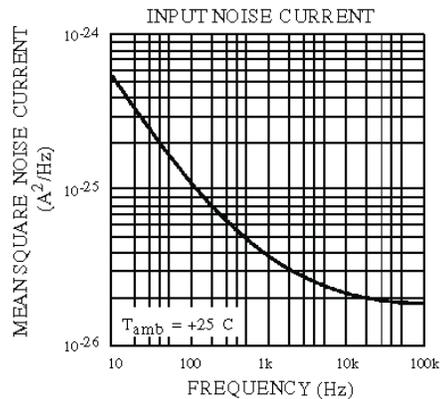
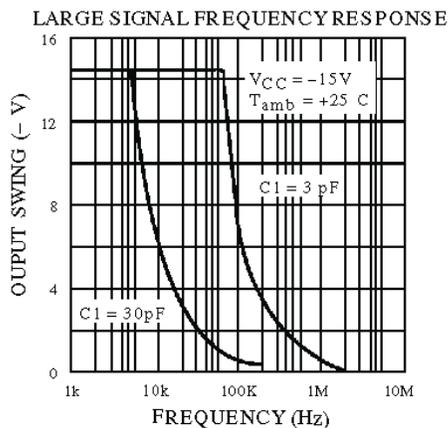


## FEED FORWARD COMPENSATION

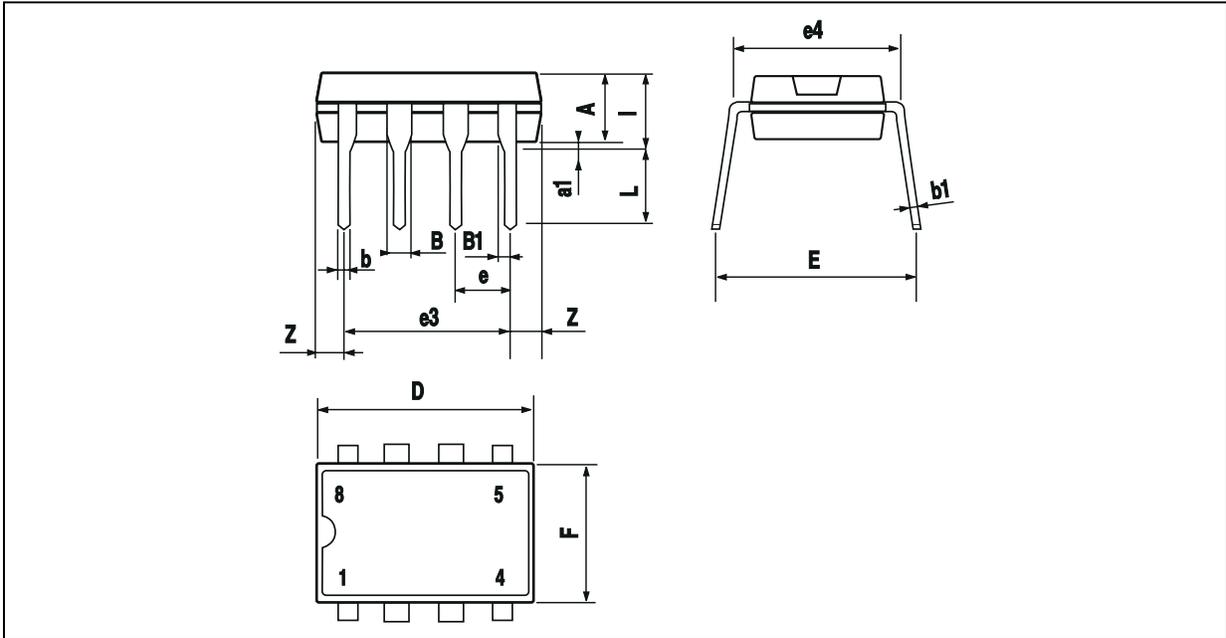




## SINGLE POLE COMPENSATION

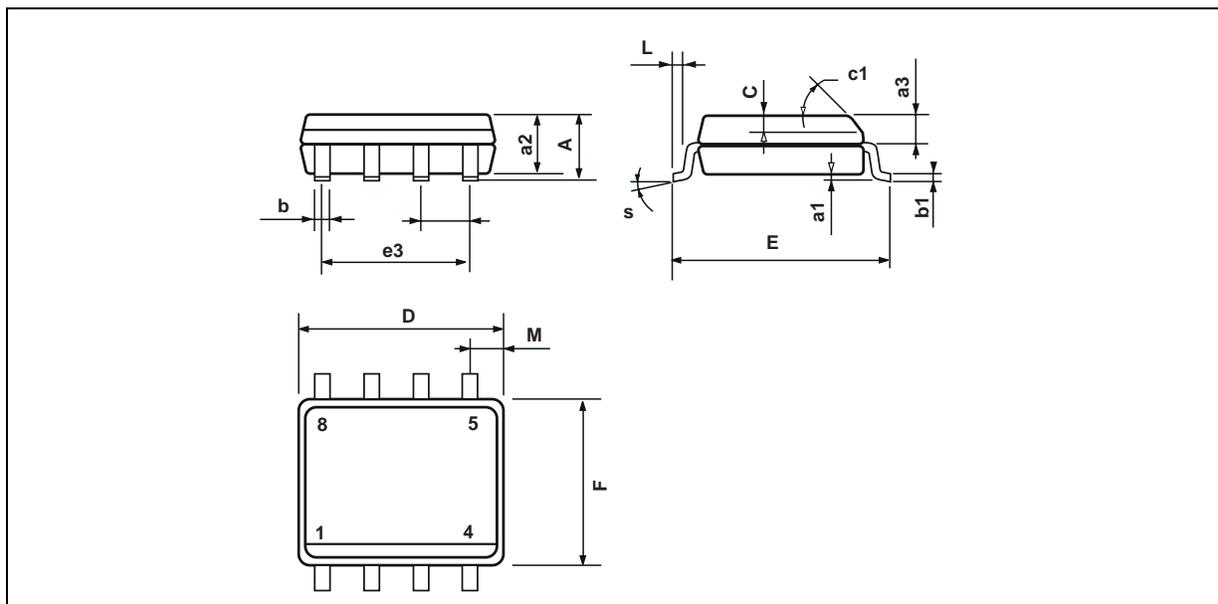


**PACKAGE MECHANICAL DATA**  
8 PINS - PLASTIC DIP



Dim.	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A		3.32			0.131	
a1	0.51			0.020		
B	1.15		1.65	0.045		0.065
b	0.356		0.55	0.014		0.022
b1	0.204		0.304	0.008		0.012
D			10.92			0.430
E	7.95		9.75	0.313		0.384
e		2.54			0.100	
e3		7.62			0.300	
e4		7.62			0.300	
F			6.6			0.260
i			5.08			0.200
L	3.18		3.81	0.125		0.150
Z			1.52			0.060

**PACKAGE MECHANICAL DATA**  
**8 PINS - PLASTIC MICROPACKAGE (SO)**



Dim.	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A			1.75			0.069
a1	0.1		0.25	0.004		0.010
a2			1.65			0.065
a3	0.65		0.85	0.026		0.033
b	0.35		0.48	0.014		0.019
b1	0.19		0.25	0.007		0.010
C	0.25		0.5	0.010		0.020
c1	45° (typ.)					
D	4.8		5.0	0.189		0.197
E	5.8		6.2	0.228		0.244
e		1.27			0.050	
e3		3.81			0.150	
F	3.8		4.0	0.150		0.157
L	0.4		1.27	0.016		0.050
M			0.6			0.024
S	8° (max.)					

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