

Regulators

ADJUSTABLE OUTPUT REGULATORS

When an adjustable or tailored voltage is required, the following regulators should be used. Voltage is set by varying the value of an external resistor or resistors. More complete data on individual devices can be found on the data sheets.

Device	Output Voltage (V _o)		Max Output Current I _o	Input Voltage (V _{in})		Minimum Input to Output Diff.	Line Reg. %/oV _o	Load Reg. %/oV _o
	Min	Max		Min	Max			
POSITIVE ADJUSTABLE OUTPUT REGULATORS								
MC1723G	2 V	37 V	150 mA	9.5 V	40 V	3 V	.2%/o	.15%/o
MC1723L	2 V	37 V	150 mA	9.5 V	40 V	3 V	.2%/o	.15%/o
MC1723CG	2 V	37 V	150 mA	9.5 V	40 V	3 V	.5%/o	. 2%/o
MC1723CL	2 V	37 V	150 mA	9.5 V	40 V	3 V	.5%/o	. 2%/o
MC1723CP	2 V	37 V	150 mA	9.5 V	40 V	3 V	.5%/o	. 2%/o
MC1569G	2.5 V	37 V	250 mA	8.5 V	40 V	2.7 V	.015%/	.13%/o
MC1569R	2.5 V	37 V	600 mA	8.5 V	40 V	2.7 V	.015%/o	.05%/o
MC1469G	2.5 V	32 V	250 mA	9.0 V	35 V	3.0 V	.03%/o	.13%/o
MC1469R	2.5 V	32 V	600 mA	9.0 V	35 V	3.0 V	.03%/o	.05%/o
MLM105G	4.5 V	40 V	20 mA	8.5 V	50 V	3.0 V	.06%/o	. 1%/o
MLM205G	4.5 V	40 V	20 mA	8.5 V	50 V	3.0 V	.06%/o	. 1%/o
MLM305G	4.5 V	30 V	20 mA	8.5 V	40 V	3.0 V	.06%/o	. 1%/o
NEGATIVE ADJUSTABLE OUTPUT REGULATORS								
MC1563G	-3.6V	-33 V	250 mA	-8.5 V	-40 V	2.7 V	.015%/o	.13%/o
MC1563R	-3.6 V	-37 V	600 mA	-8.5 V	-40 V	2.7 V	.015%/o	.05%/o
MC1463G	-3.8 V	-32 V	250 mA	-9.0 V	-35 V	3.0 V	.03%/o	.05%/o
MC1463R	-3.8 V	-32 V	600 mA	-9.0 V	-35 V	3.0 V	.03%/o	.05%/o
MLM104G	-.015	-40 V	20 mA	-8.0 V	-50 V	2.0 V	.1 %/o	.05%/o
MLM204G	-.015	-40 V	20 mA	-8.0 V	-50 V	2.0 V	.1 %/o	.05%/o
MLM304G	0.035	-30 V	20 mA	-8.0 V	-40 V	2.0 V	.1 %/o	.05%/o

Temp. Coeff. of V_{out} (typical)	Safe Operating Area	Special Features			Power Dissipation (Maximum)		T_{JMAX}	Pkg. Case
		Current Limit	Electronic Shutdown	S.O.A. Protection	$T_A = 25^\circ C$	$T_C = 25^\circ C$		
$\pm .015^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	No	No	.8W	2.1W	$150^\circ C$	603
$\pm .015^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	No	No	1.0 W	—	$175^\circ C$	632
$\pm .051^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	No	No	.8W	2.1W	$150^\circ C$	603
$\pm .015^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	No	No	1.0 W	—	$175^\circ C$	632
$\pm .015^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	No	No	.65W	—	$150^\circ C$	646
$\pm .002^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	Yes	No	.68W	1.8W	$150^\circ C$	602
$\pm .002^\circ / ^\circ C$	.6A@ 24 V, 1A@ 40 V	Yes	Yes	No	3.0 W	14.0W	$150^\circ C$	614
$\pm .002^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	Yes	No	.68W	1.8W	$150^\circ C$	602
$\pm .002^\circ / ^\circ C$	.6A@ 24 V, 15A@ 35 V	Yes	Yes	No	3.0 W	14.0W	$150^\circ C$	614
$\pm .007^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	No	No	.68W	2.7W	$150^\circ C$	601
$\pm .007^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	No	No	.68W	1.6W	$100^\circ C$	601
$\pm .007^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	No	No	.40W	1.3W	$85^\circ C$	601
$\pm .002^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	Yes	No	.68W	1.8W	$150^\circ C$	602
$\pm .002^\circ / ^\circ C$	.6A@ 30 V, .3A@ 40 V	Yes	Yes	No	2.40W	9.0W	$175^\circ C$	614
$\pm .002^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	Yes	No	.68W	1.8W	$150^\circ C$	602
$\pm .002^\circ / ^\circ C$	.6A@ 30 V, .3A@ 40 V	Yes	Yes	No	2.40W	9.0W	$175^\circ C$	603
$\pm .007^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	No	No	.68W	2.7W	$150^\circ C$	603
$\pm .007^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	No	No	.68W	1.6W	$100^\circ C$	603
$\pm .007^\circ / ^\circ C$	P_{DMax} $I_{OMax Lim}$	Yes	No	No	.40W	1.3W	$80^\circ C$	603