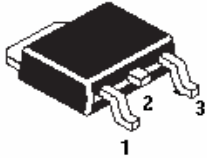


3-TERMINAL POSITIVE VOLTAGE REGULATOR

CL7808DT

**TO-252 (DPAK)
Plastic Package**



Pin: 1 Input
2 Ground
3 Output

The voltages available allow these Regulators to be used in Logic Systems, Instrumentation, Hi-Fi Audio Circuits and other Solid State Electronic Equipment

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

DESCRIPTION	SYMBOL	VALUE	UNIT
Input Voltage	V _{IN}	35 40	V
Power Dissipation	P _D	5	W
Operating Junction Temperature Range	T _j	+150	°C
Storage Temperature Range	T _{stg}	- 65 to +150	°C

THERMAL RESISTANCE

Junction to Ambient in free air	R _{th(j-a)}	92	°C/W
Junction to Case	R _{th(j-c)}	5.0	°C/W

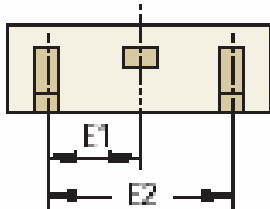
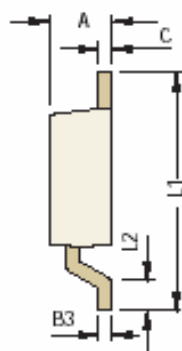
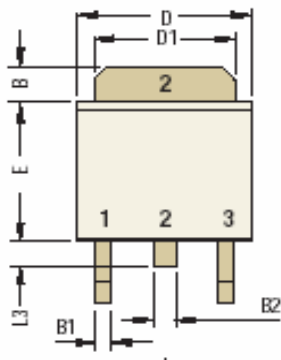
ELECTRICAL CHARACTERISTICS (T_a=25°C unless specified otherwise)

V_{IN}=15V, I_O=100mA, T_a=25°C

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Output Voltage	V _O	I _O =5mA ~ 1.5A V _{IN} =10.5 ~ 23V, P _D 15W	7.7		8.3	V
Line Regulation	R _{EGV}	V _{IN} =10.5 ~ 25V			80	mV
Load Regulation	R _{EGL}	I _O =5mA ~ 1.5A			80	mV
Quiescent Current	I _Q				8.0	mA
Quiescent Current Change	I _Q	V _{IN} =10.5 ~ 25V			1.0	mA
		I _O =5mA ~ 1A			0.5	mA
Input Voltage	V _{IN}		10.5		25	V
Ripple Rejection Ratio	R _R	V _{IN} =11.5 ~ 21.5V, f=120Hz	58			dB
Max Output Current	I _{OM}	T _J =25°C		2.2		A
Output Voltage Drift	V _T	I _O =5mA, T _J =0 ~ 125°C		- 0.4		mV/°C
Output Noise Voltage	V _{NO}	f=10Hz ~ 100KHz		10		μV
Short Circuit Current Limit	I _{SC}	T _J =25°C		2.0		A

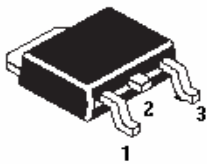
MARKING	CL
	7808DT
	XY MX
XY= Date Code	

Package TO-252 (DPAK)



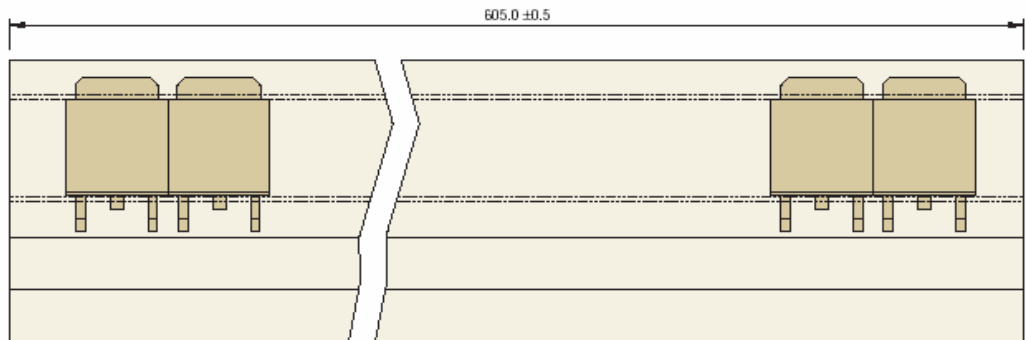
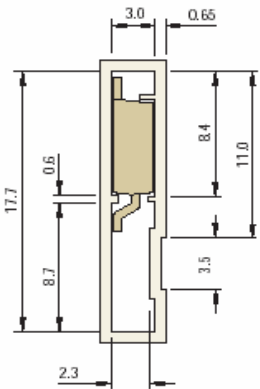
DIM	Min	max
A	2.20	2.40
B	1.30	1.50
B1	0.55	0.65
B2	0.75	0.85
B3	0.46	0.58
C	0.46	0.58
D	6.40	6.60
D1	5.20	5.40
E	5.40	5.60
E1	2.25	2.35
E2	4.50	4.70
L1	9.25	9.75
L2	0.50	
L3	0.90	1.10

All Dimensions are in mm



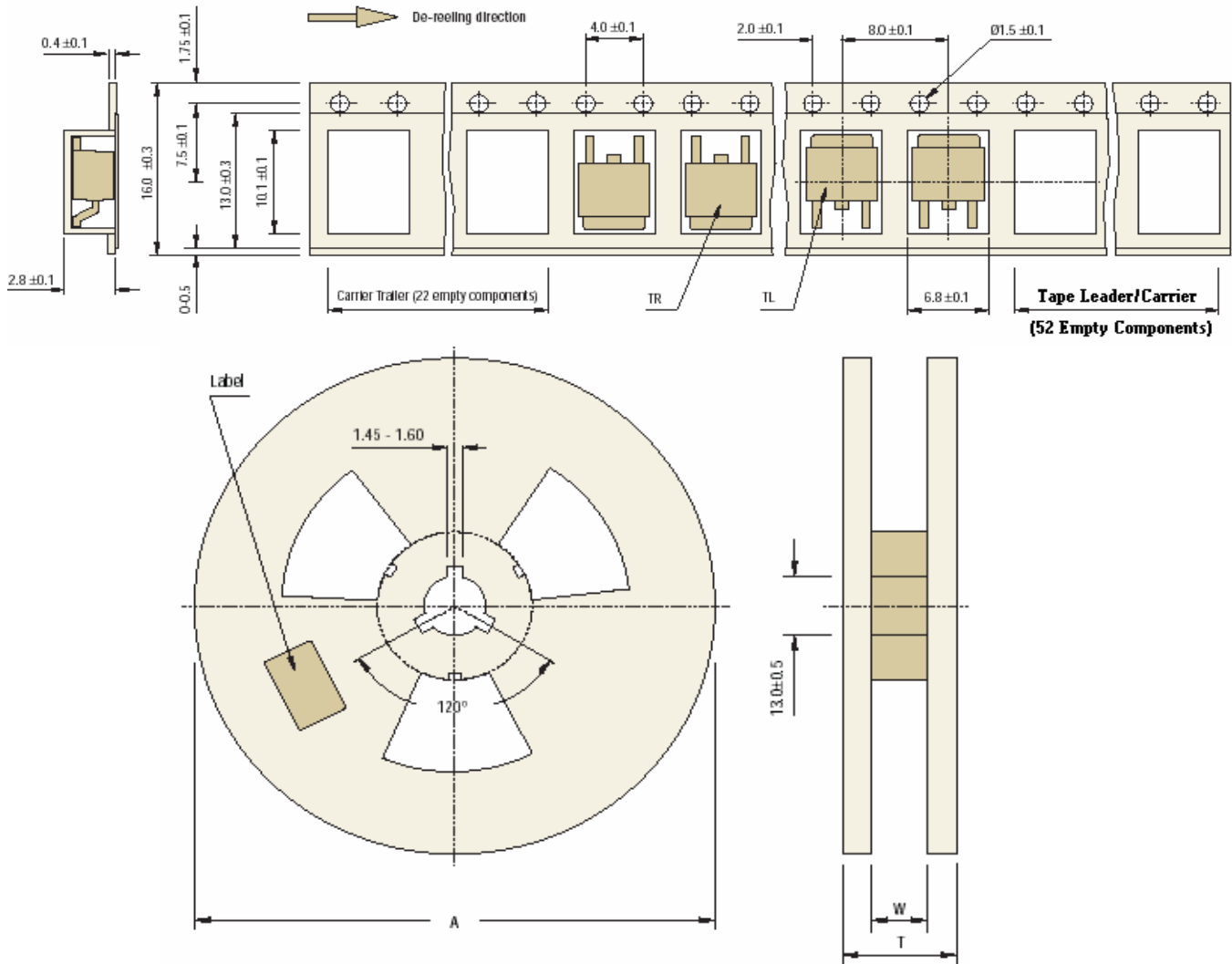
Pin: 1 Input
2 Ground
3 Output

TO-252 (DPAK) Tube Packing



Qty: 80 pcs/Tube

TO-252 (DPAK) Tape and Reel Specification



Reel Specifications

Package	Tape Width	Reel Dia. A - Max	Devices Per Reel and MOQ	Inside Thickness W	Reel Thickness T - max
TO-252 (DPAK)	16	330	2,500	17.5 ± 1.5	24.0

All Dimensions are in mm

Packaging Information

Package/Case Type	Packaging Type	Std. Packing Qty
TO-252 (DPAK)	Tube	1,600
TO-252 (DPAK)	T & R	2,500

T & R: Tape and Reel
Tube : 80 pcs/Tube

Disclaimer

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