

AC-DC Power Modules



TML Series, 20 & 40 Watt

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Features

- Replacement for TML 15 and TML 30 models
- PCB mount with solder pins
- Chassis mount with screw terminals
- Single, dual and triple output models
- Universal input 85-264Vac, 47-440Hz
- Protection class I (TML 20) & class II (TML 40)
- EMI meets EN 55022 class B
- Short circuit and overload protection



Electrical Specification

Input voltage range	85-264Vac, 47-440Hz
EMI suppression	EN55011 class B, EN55022 class B, FCC level B
EMC immunity	EN61000-6-1
Output current limitation	foldback, automatic recovery
Efficiency	80% typical
Operating Temperature Range	-25°C to +60°C (derate at 4%/°C above 50°C)
Safety Approvals	cUL/UL 60950-1, IEC/EN 60950-1,
Degree of protection	safety class I (TML 40 models class II)
Casing	plastic (UL94V-0 rated)

Output Voltage and Current Ratings

MODEL	OUTPUT P	OUTPUT 1	OUTPUT 2	OUTPUT 3	RIPPLE & NOISE	LINE REG.	LOAD REG.
TML20103		3.3VDC 4500mA			1.0%	0.5%	1.0%
TML20105		5VDC 4000mA			1.0%	0.5%	1.0%
TML20112		12VDC 1670mA			1.0%	0.5%	1.0%
TML20115		15VDC 1340mA			1.0%	0.5%	1.0%
TML20124	20W	24VDC 840mA			1.0%	0.5%	1.0%
TML20205		+5VDC 2000mA	-5VDC 2000mA		1.0%	0.5%	3.0%
TML20212		+12VDC 830mA	-12VDC 830mA		1.0%	0.5%	3.0%
TML20215		+15VDC 670mA	-15VDC 670mA		1.0%	0.5%	3.0%
TML20512		+5VDC 2800mA	+12VDC +250mA	-12V -250mA	1.0%	1.0%/5.0%	2.0%/5.0%
TML20515		+5VDC 2800mA	+15VDC +200mA	-15V -200mA	1.0%	1.0%/5.0%	2.0%/5.0%
TML40103		3.3VDC 8000mA			1.5%	0.5%	0.5%
TML40105		5VDC 8000mA			1.5%	0.5%	0.5%
TML40112		12VDC 3330mA			1.0%	0.5%	0.5%
TML40115		15VDC 2670mA			1.0%	0.5%	0.5%
TML40124		24VDC 1670mA			1.0%	0.5%	0.5%
TML40205	40W	+5VDC 4000mA	-5VDC 4000mA		1.0%	0.5%	3.0%
TML40212		+12VDC 1670mA	-12VDC 1670mA		1.0%	0.5%	3.0%
TML40215		+15VDC 1330mA	-15VDC 1330mA		1.0%	0.5%	3.0%
TML40252		+5VDC 5000mA	+12VDC 1250mA		1.0%	0.5%/5.0%	2.0%/6.0%
TML40254		+5VDC 5000mA	+24VDC 625mA		1.0%	0.5%/5.0%	2.0%/6.0%
TML40512		+5VDC 5000mA	+12VDC +600mA	-12V -600mA	1.0%	0.5%/5.0%	3.0%/7.0%
TML40 515		+5VDC 5000mA	+15VDC +500mA	-15V -500mA	1.0%	0.5%/5.0%	3.0%/7.0%

For chassis mount version add suffix C

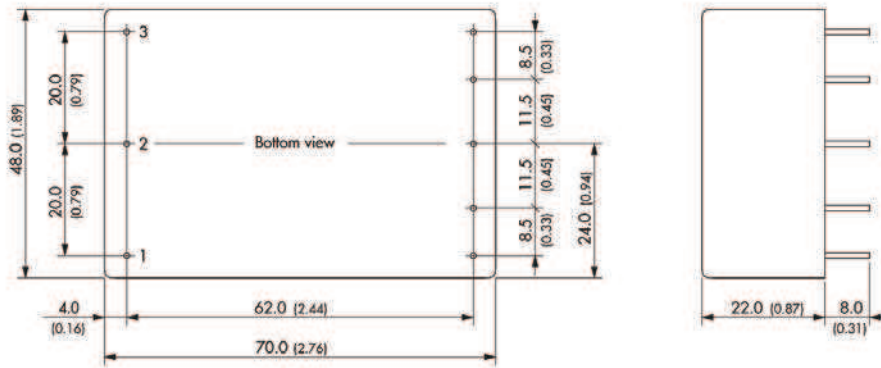
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Mechanical and Connection Details

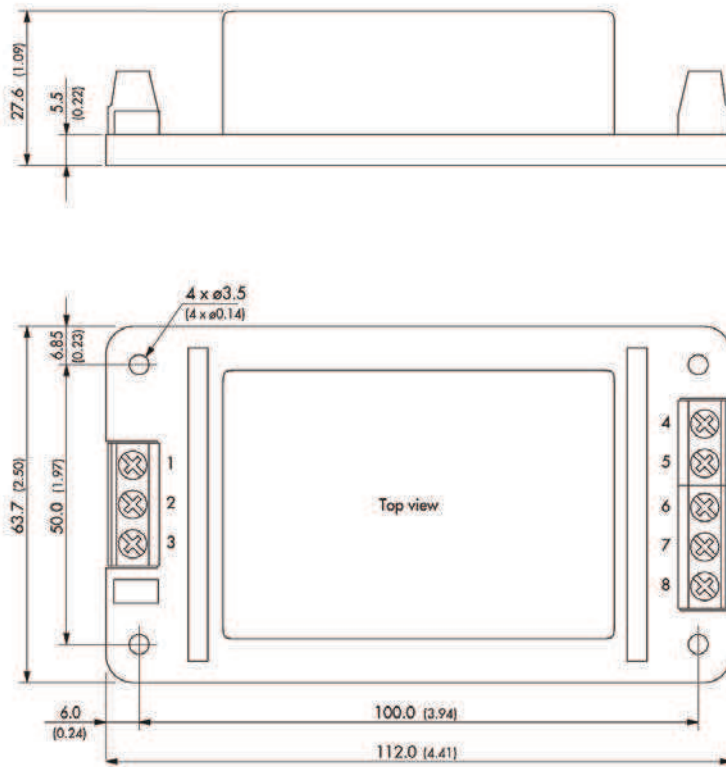
TML20 Models - for PCB mount



Pin diameter \varnothing 1.0 mm (0.039)

Weight: 110 g (3.9 oz)

TML20C Models - for chassis mount



Dimensions in [mm], () = Inches
Tolerances = 0.5mm (0.02)

Weight: 155 g (5.5 oz)

Pin	Pin Out		
	Single Output	Dual Output	Triple Output
1		FG	
2		AC in (N)	
3		AC in (L)	
4	No pin/nc	No pin/nc	Vout3
5	-Vout	Vout2	Comm.
6	No pin	Comm.	Vout2
7	+Vout	Vout1	+Vout1
8	No pin	No pin	-Vout1

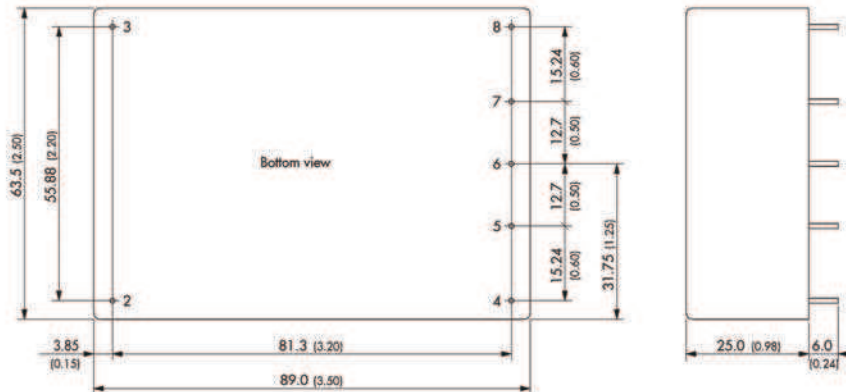
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Mechanical and Connection Details (cont.)

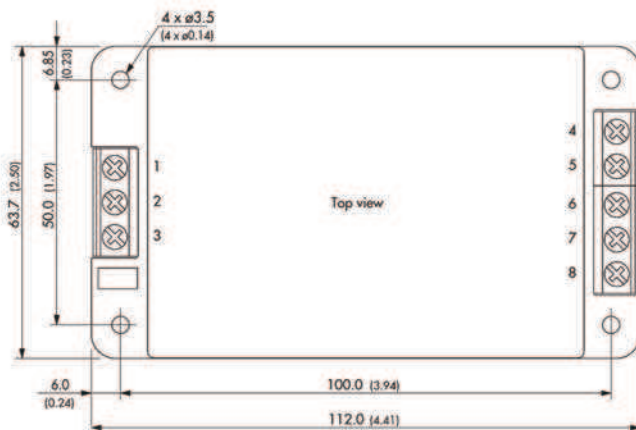
TML40 Models - for PCB mount



Pin diameter \varnothing 1.2 mm (0.047)

Weight : 280 g (9.9 oz)

TML40C Models - for chassis mount



Weight : 325 g (11.5 oz)

Dimensions in [mm], () = Inches
Tolerances = 0.5mm (0.02)

Pin Out				
Pin	Single Output	Dual sym. Output	Dual asym. Output	Triple Output
1		No pin / No conn.		
2		AC in (L)		
3		AC in (N)		
4	+Vout	Vout1	+Vout2	Vout2
5	No pin/nc	No pin/nc	+Vout1	+Vout1
6	-Vout	Comm.	-Vout2	Comm.
7	No pin/nc	No pin/nc	-Vout1	-Vout1
8	nc	Vout2	No pin/nc	Vout3