

NEW!

LM2NZF 5.08
LM3RZF 5.08

**Double and Triple Level
Printed Circuit Board
Terminal Blocks with
Tension Clamp Connection**

Introduction

Weidmüller's LM2NZF and LM3RZF 5.08mm terminal blocks offer high packaging density on the printed circuit board. The new terminals are quick and easy to install, while providing secure connections. The tension clamp terminal blocks are footprint compatible with Weidmüller's double and triple level screw clamp terminal blocks. This provides the flexibility of switching between screw clamp and tension clamp terminals without changing the existing board layout, thus allowing freedom of choice for your application.

The easy and fast operation of the tension clamp reduces wiring time and operator strain. The clamp remains open when activated by a screwdriver, eliminating the need to maintain pressure. The self-adjusting tension clamp maintains the required pressure on the wire, creating a maintenance free connection. The clamp is always closed when not activated, making incorrect wiring impossible. No special tools are required since the wires are easily terminated with a standard screwdriver.

A marking surface above the wire entry enables easy and clear identification of the wiring using Weidmüller's KSW marking strips. Marking is available in standard number print or customized marking solutions.

The LM2NZF is offered up to 24 poles as standard, and can be produced up to 48 poles. The LM3RZF is offered up to 48 poles as standard, and can be produced up to 72 poles.

Benefits

- High packaging density on PCB
- Reduced wiring time
- Footprint compatible with Weidmüller's screw clamp terminal blocks for added design and application flexibility
- No special tools required
- 135° wire outlet for easy wiring access
- Maintenance-free secure connection

For more information, contact

Weidmüller Inc.

Telephone **(800) 849-9343**

Facsimile **(804) 379-2593**

E-mail **info@weidmuller.com**

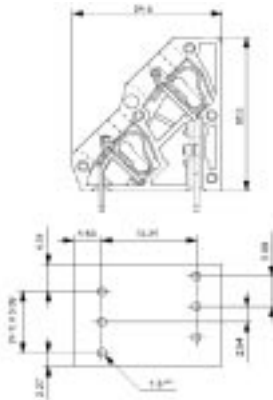
Website **www.weidmuller.com**



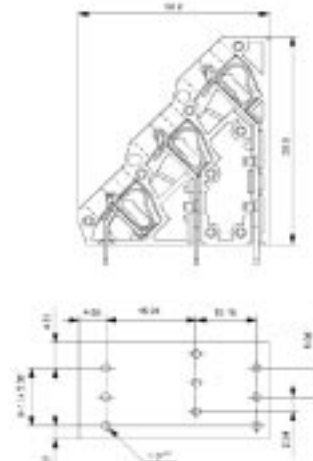
ISO 9001
A2025

Printed Circuit Board Terminals

LM2NZF 5.08



LM3RZF 5.08



Technical Data

Material	
Insulation material	PA 66
Color	orange
Temperature range	-20...+100°C
Flammability class	UL 94 V-2
Contact Base Material	CuSn
Contact Plating	Tin

General

Pitch	5.08 mm
Connection method	tension clamp
Soldering pin length	3.5 mm
PCB hole diameter	1.3 ^{+0.1} mm
Insulation stripping length	7.5 mm
Insulation resistance	≥ 10 ⁵ MΩ
Through resistance	≤ 5 mΩ
Wire orientation	135°

UL rated data

Rated voltage, industrial	300 V
Rated current	10 A
Wire Size	26...12 AWG

VDE rated data 0110 4.79

Rated cross-section	1.5 mm ²
Rated current	12 A ¹⁾

Overvoltage category III/Pollution severity 3²⁾

Rated voltage	250 V
Impulse voltage	4 kV

CSA rated data

Rated voltage, industrial	300 V
Rated current	10 A
Wire Size	28...12 AWG

Application notes

- referred to 20°C ambient temperature, rated cross-section, and max. poles
- Overvoltage category/Pollution severity:**

III/2	II/2
-------	------

LM2NZF 5.08

Pin Length		3.5 mm	Std.
Color		Orange	Pack
Poles	Description	Part No.	Qty.
4	LM2NZF 5.08/4/3.5 OG	176481	50
6	LM2NZF 5.08/6/3.5 OG	176482	50
8	LM2NZF 5.08/8/3.5 OG	176483	50
10	LM2NZF 5.08/10/3.5 OG	176484	50
12	LM2NZF 5.08/12/3.5 OG	176485	50
14	LM2NZF 5.08/14/3.5 OG	176486	20
16	LM2NZF 5.08/16/3.5 OG	176487	20
18	LM2NZF 5.08/18/3.5 OG	176488	20
20	LM2NZF 5.08/20/3.5 OG	175802	20
22	LM2NZF 5.08/22/3.5 OG	176489	20
24	LM2NZF 5.08/24/3.5 OG	176490	10

Note: LM2NZF may be produced up to 48 pole versions.

Please consult factory for part number. 500 pc. minimum order may apply for higher pole versions.

LM3RZF 5.08

Pin Length		3.5 mm	Std.
Color		Orange	Pack
Poles	Description	Part No.	Qty.
6	LM3RZF 5.08/6/3.5 OG	176491	50
9	LM3RZF 5.08/9/3.5 OG	176492	50
12	LM3RZF 5.08/12/3.5 OG	176493	50
15	LM3RZF 5.08/15/3.5 OG	176494	20
18	LM3RZF 5.08/18/3.5 OG	176495	20
21	LM3RZF 5.08/21/3.5 OG	175804	20
24	LM3RZF 5.08/24/3.5 OG	176496	10
27	LM3RZF 5.08/27/3.5 OG	176497	10
30	LM3RZF 5.08/30/3.5 OG	175803	10
33	LM3RZF 5.08/33/3.5 OG	176498	10
36	LM3RZF 5.08/36/3.5 OG	176499	10
48	LM3RZF 5.08/48/3.5 OG	175805	10

Note: LM3RZF may be produced up to 72 pole versions.

Please consult factory for part number. 500 pc. minimum order may apply for higher pole versions.

When mounting PCBs it should be noted that the ratings specified in the data sheet only relate to connection elements. The necessary PCBs creepage and clearance paths must be determined in accordance with VDE 0110. The current carrying capacity of PCBs is to be observed in accordance with DIN IEC 326 part 3.

Weidmüller connectors are tested according to the DIN 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occurrence of electrical, mechanical, thermic and corrosive stress will be satisfied.