

- CWMDFB-PB01
**100Pair Main
Distribution
Frame Block**

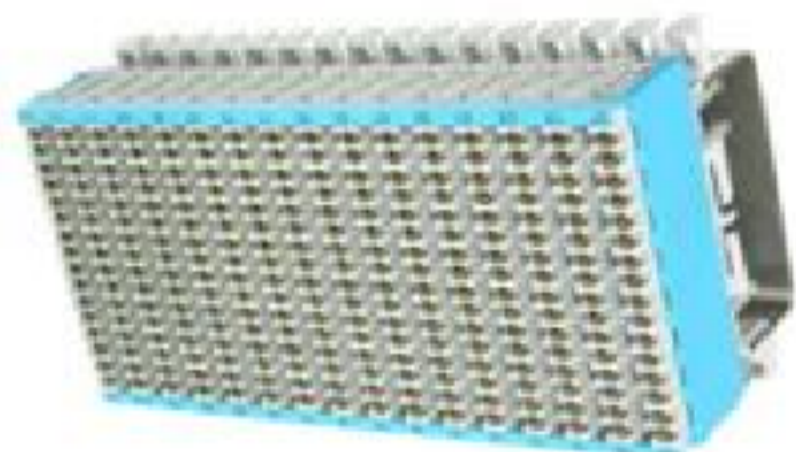
***100 Pair Vertical Protection Blocks-(CWMDFB-PB01 Blocks)
FOR PLASTIC INSULATED COPPER CONDUCTORS***

Copper conductor diameter		0.40-0.80mm AWG 26-20
No. of wires that can be connected per contact slot		2 max
<i>No. of times connection can be inserted</i>		
● Connection with stranded cable of solid wire, 0.40~1.65mm		200
● Connection with solid conductors, 0.8mm		50
Electrical Data		
Voltage	Proof	3.6 KV (1.2/50 μ s pulse)
	Dielectric strength	2.0 KV rms
Current	Surge	10KA (wave 8/20 μ s)
	Continuous	Equal to terminated conductor rating
Resistance	Insulation	$\cong 5 \times 10^4 M\Omega$
	Termination typical	<1m Ω
	guaranteed	$\cong 7m\Omega$
Capacitance	Adjacent contacts	<1PF
Transmission Data		
Crosstalk attenuation	<frequency	Cross talk
300Hz to 3400 Hz		$\cong 110dB$
3.4KHz to 10 KHz		$\cong 100dB$
10KHz to 1.2 MHz		$\cong 60dB$
1MHz		$\cong 50dB$
10MHz		$\cong 35dB$
20MHz		$\cong 30.5 dB$
Insertion loss		$\cong 0.1dB$
Bit error rate (50mV signal)		
8.448 Mbit (PCM 120)		$\cong 7$
2.048 Mbit (PCM 30)		0
140 kbit		0
64 kbit		0
Mechanical Data		
Termination type		Insulation displacement, dry gas tight
Wire insertion force		40-75 newtons
Wire pull out force		10.5 newtons
wire retention force		70% of wire breaking force

Material		
Plastic components		PBT UL94V-0
Contact material		Phosphor bronze
Plating		Silver plating
Environmental		
Temperature range storage		-40~+90 °C
Temperature range operational		-20~+80 °C
humidity		95%

128W x 187H x 98D

Material For Plastic Parts” PBT



- CWMDFB-01
**100Pair Main
Distribution
Frame Test Block**

***128 Pair Horizontal Testing Blocks-(CWMDF-01 Test Blocks)
FOR PLASTIC INSULATED COPPER CONDUCTORS***

Copper conductor diameter		0.40-0.80mm AWG 26-20
No. of wires that can be connected per contact slot		2 max
<i>No. of times connection can be inserted</i>		
● Connection with stranded cable of solid wire, 0.40~1.65mm		200
● Connection with solid conductors, 0.8mm		50
Electrical Data		
Voltage	Proof	3.6 KV (1.2/50 μ s pulse)
	Dielectric strength	2.0 KV rms
Current	Surge	10KA (wave 8/20 μ s)
	Continuous	Equal to terminated conductor rating
Resistance	Insulation	≧ 5 × 10 ⁴ MΩ
	Termination typical	<1mΩ
	guaranteed	≧ 7mΩ
Capacitance	Adjacent contacts	<1PF
Transmission Data		
Crosstalk attenuation	<frequency	Cross talk
300Hz to 3400 Hz		≧ 110dB
3.4KHz to 10 KHz		≧ 100dB
10KHz to 1.2 MHz		≧ 60dB
1MHz		≧ 50dB
10MHz		≧ 35dB
20MHz		≧ 30.5 dB
Insertion loss		≧ 0.1dB
Bit error rate (50mV signal)		

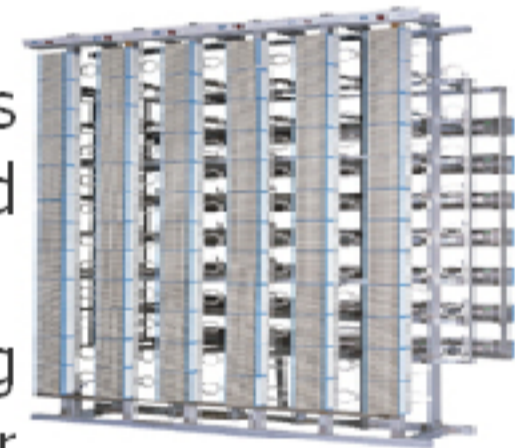
8.448 Mbit (PCM 120)		≦ 7
2.048 Mbit (PCM 30)		0
140 kbit		0
64 kbit		0
Mechanical Data		
Termination type		Insulation displacement, dry gas tight
Wire insertion force		40-75 newtons
Wire pull out force		10.5 newtons
wire retention force		70% of wire breaking force
Material		
Plastic components		PBT UL94V-0
Contact material		Phosphor bronze
Plating		Silver plating
Environmental		
Temperature range storage		-40~+90 °C
Temperature range operational		-20~+80 °C
humidity		95%

244W x 110H x 94D

Material For Plastic Parts" PBT

Features& Specifications Of Main Distribution Frame

- Safety: Reliable over-current & over-voltage protection; all plastic parts are made of fire-retardant materials; meet international FV-0 and UL94-V0 standard.
- Advancement:Double-layer-double-slot; slot gold-plated; innovating three-point IDC technology enhances both connection reliability and air tightness.
- Adaptability:High-density horizontal and vertical modules save space and are especially suitable for MDF improvement.
- Management:Modular structure; drilling holes is not needed for frame installation; all operations are done at the front; capacity is expandable; can be installed back-to-back to save space.



Applied Standards

Reference to the advantages of similar domestic and foreign products, Cheerwe Telecom's MDF products are manufactured strictly according to industry standards:

- YD/T694-2004: Main Distribution Frame
- YD/T611-1993: Communication Cable Cross Connection Cabinet
- YD/T740-1995: Communication Cable Junction Box
- YD/T881-1996: Technical Conditions for Communication Cable Junction Box

Technical Specifications

Environmental requirements

- Working temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$
- Storage temperature: $-25^{\circ}\text{C}\sim+55^{\circ}\text{C}$
- Working relative humidity: $\leq 85\%$ ($+30^{\circ}\text{C}$)
- Storage relative humidity: $\leq 75\%$
- Air pressure: $70\text{KPa}\sim 106\text{Kpa}$

Frame

- Height: 2000mm, 2200mm, 2600mm
- Material: aluminum alloy or electrolytic steel board
- Access: front or front/back access
- Color: Century Man yellow, or Telecom gray
- Earthing: copper bar
- Insulation Resistance: $>1000\text{M}\Omega$ (500V DC)
- Dielectric strength: $\geq 1000\text{V}$ (50Hz AC)/min

Module

- Dimensions: Horizontal block: **244W x 110H x 94D**
Vertical block: **128W x 187H x 98D**

Wire material: single strand plastic insulation wire

- Wire diameter: 0.4-0.6mm
- Max. outer diameter (including insulation layer): $\leq 1.4\text{mm}$
- Pull-out force of single wire: $\geq 25\text{N}$
- Contact force between protector reed and block contact: $f > 50\text{g}$
- IDC Re-connection: > 200 times

Protector

- Breakdown DC Voltage: $U_{dc}=230$ ($+30/-40$)V
- Breakdown Impulse Voltage: $U_{max}\leq 800\text{V}$ (1000V/us, up ramping)
- Resistance against Impulse Voltage: withstand 4KV impulse voltage (10/700us, 10 times with 1min interval, converted adjacent voltage polarity)
- Resistance against Power Line (long) Induction: withstand voltage $U_{ac\ max.}=600\text{Vr.m.s}$ (50Hz, duration 500ms, 5 times with 1min interval)
- Resistance against Power Line Contact: without combustion under $U_{ac\ max.}=220\text{Vr.m.s}$ (50Hz, 1 hour)
- Ambient Resistance: $< 20\Omega$; difference between line a and b: $< 1.5\Omega$
- Over-current Protection: no action current 90mA; duration: 1 hour (60V DC, $+40^{\circ}\text{C}$)

Technical Specifications For OverVoltage and OverCurrent Protection Plugs:

Material for Cooper Parts: CuSn6.5-7.0P

Plating For Sn: 1U—3U (Could Also Be plated With Silver)

Max Operation Voltage:(a/b-e, a-b): 180V

Max Operation Currency:(a/b-e, a-b)@25C: 120Ma

DC Spark Over-Voltage [Arresters@100V/s](#) (a/b-e, a-e): 230V+-20%

Max Output [Voltage@1](#) KV/Mju S(a/b-e,a-e): Less Than 350V Or Less Than 450V

Nominal Arrester Surge Currency:(8/20 Mju S, a/b-e): 5 **a**rms

Insurance Resistance For [Arrestor@100V](#) DC: More Than 1000 M Ohm

Nominal De-Coupling Resistance(a-a'/b-b')@25C: 10 Ohm+-20%

Max Trip Current, PTC@Vmax=230Vrms : 1 Arms

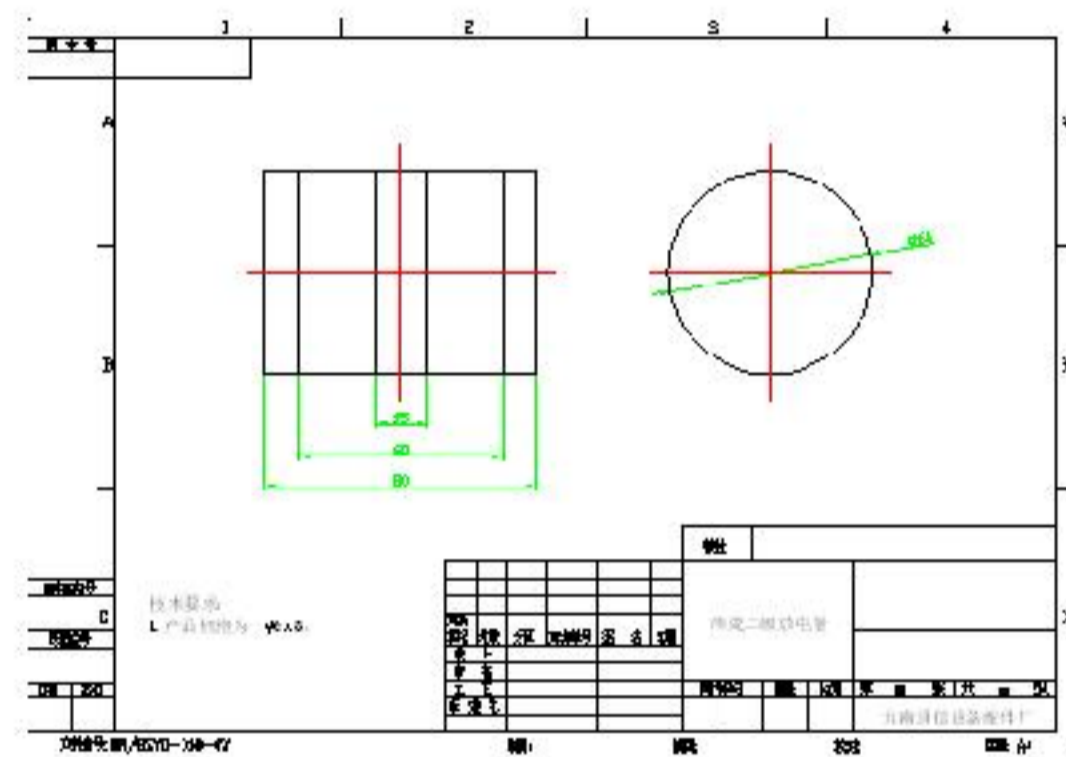
Capacitance(1 MHz/1Vrms,a/b-e,a-b): 50pF

Operation Temperature: -20C---+60C

Storage Temperature: -40C---+80C

Technical Specifications For Gas Discharge Tube:

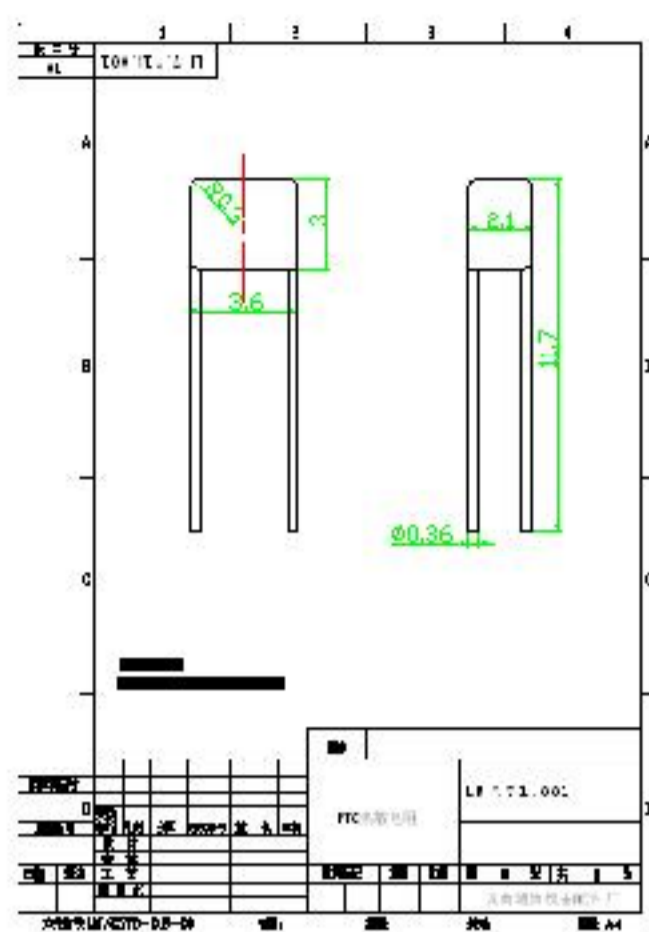
DC spark-over voltage (100V/s) V	Impulse spark-over voltage (1KV/us) V	Impulse discharge current (10/1000us 300times) A	Impulse discharge current (8/20us 10times) KA	AC discharge current (50Hz 1s 5times)	Holdover voltage V	Insulation resistance Ω	Capacitance pF	Transverse voltage duration ns		
3R-230AL ₃	230 ⁺³⁰ ₋₄₀	I	≤800	100	10	10	135	≥10 ¹⁰	<1	≤200



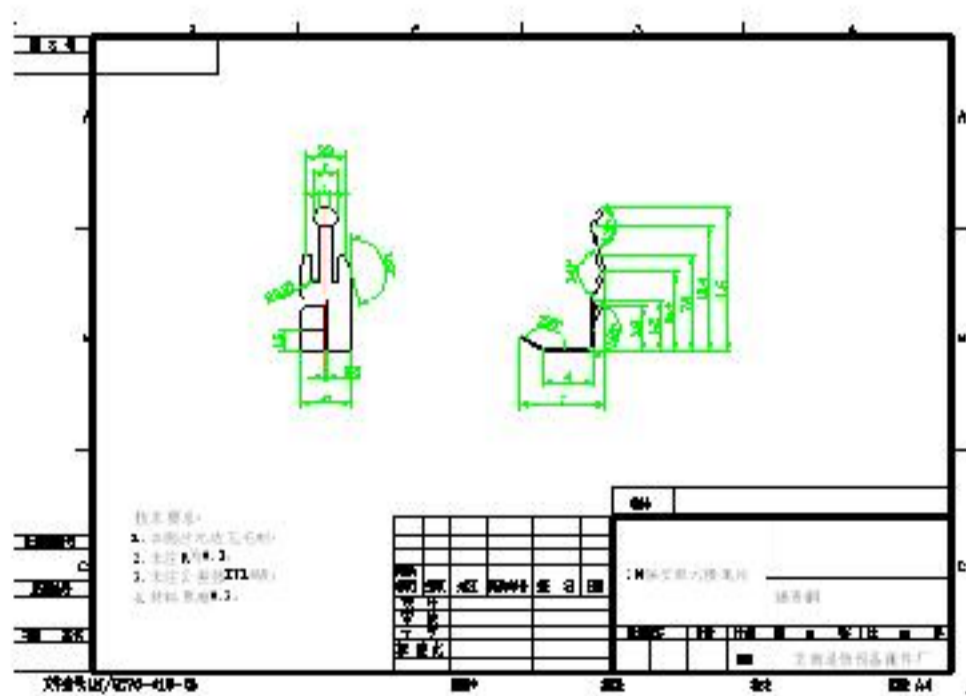
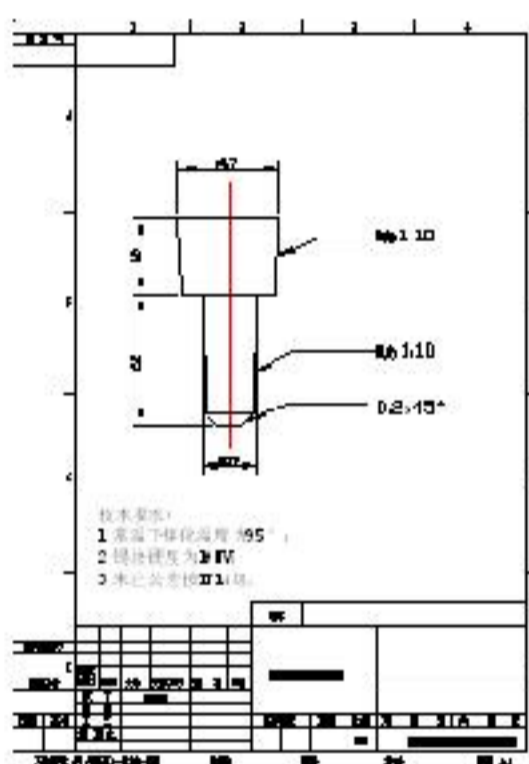
Technical Specifications For PTC Thermistors:

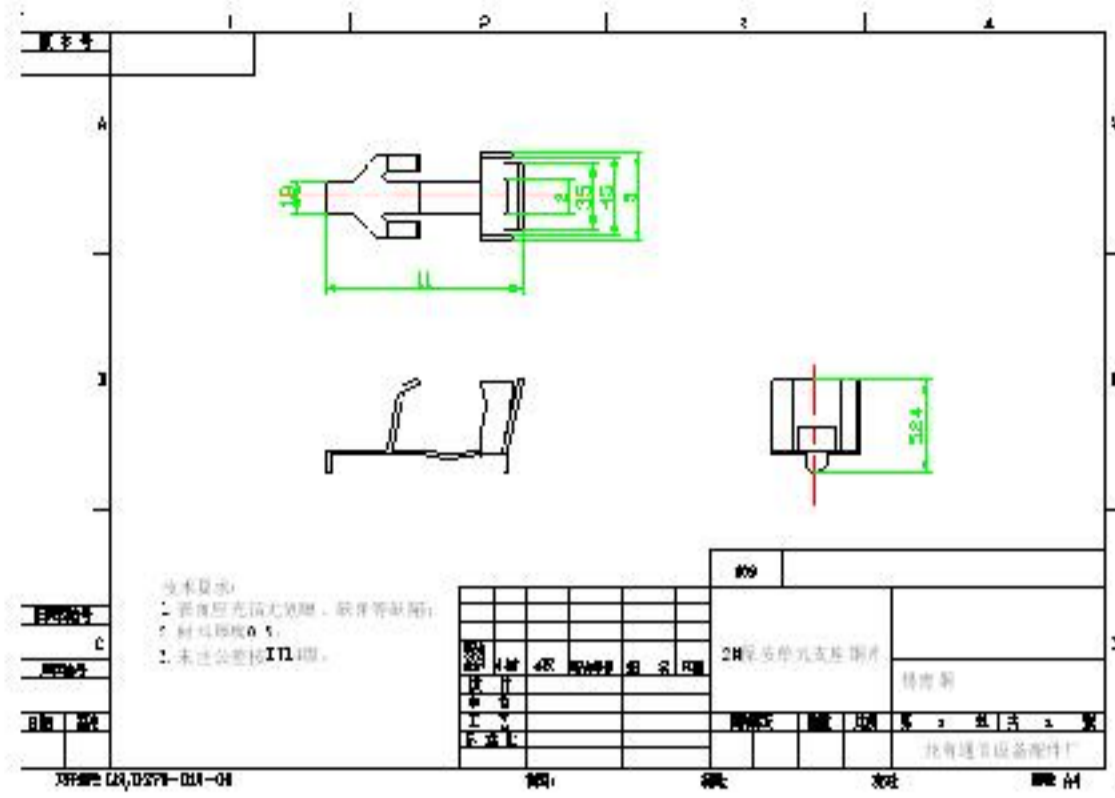
Model	R ₀	V _{max.}	I _{max.}	I _{hold} *	Figure.	Dimensions (mm) **		
	(Ω)	(Vdc)	(Idc)	(A)		A	B	C
KT002-250	6~12	250	3	0.11 #	1	5.5	5.5	2.2





Drawing For Accessories:





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