Chip Resistors MCCN-21 and MCCN-41

multicomp PRO



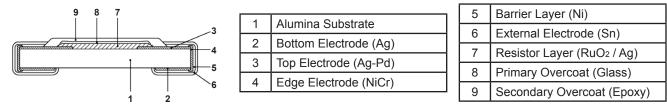
Features

- Thick film flat array
- Contribute to higher-density mounting and reduction in size of devices by remarkably PCB
- Contribute to the size reduction of small electronic equipment such as Mobile phone, HDD
- · Reduced the mounting time by decreasing the number of components
- Suitable for IR reflow soldering

Applications

- · Pull-up / pull-down resistors for digital circuits
- · Used in interface circuits of LCD displays, memory modules, etc
- · Communication equipments

Construction



Standard Electrical Specifications

ltem	Power Rating / Rated Current	Operating Temperature Range	Maximum Operating Voltage	Maximum Overload Voltage	Number of Resistors	Resistance Range ±5%	TCR (PPM / °C)
CN-21	1 / 32 W	-55 to +125°C	12.5V	25V	2	10Ω - 1ΜΩ	±200
Jumper	0.5 A				2	0Ω (< 50mΩ)	
CN-41	1 / 32 W				4	10Ω - 1ΜΩ	
Jumper	0.5 A				4	0Ω (< 50mΩ)	

Operating voltage = $\sqrt{(P \times R)}$ or maximum operating voltage listed above, whichever is lower Overload voltage = 2.5 × $\sqrt{(P \times R)}$ or maximum overload voltage listed above, whichever is lower Viking is capable of manufacturing the optional specification based on customer's requirement

Environmental Characteristics

ltem	Requirement		Test Method		
item	±5%	Jumper	Test Method		
Temperature coefficient of resistance (TCR)	As specification		-55°C to +125°C, 25°C is the reference temperature		
Short time overload	±(2% +0.1Ω)		2.5 times RCWV or maximum overload voltage for 5s		
Insulation resistance	≥ 10G		Maximum overload voltage for 1 min		

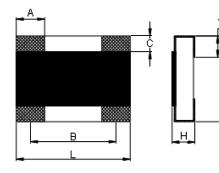


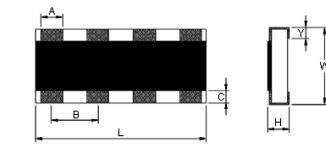
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ltem	Require	ment	Test Method		
item	±5% Jumper		iest Methou		
Endurance		< $100m\Omega$ 70 ±2°C, maximum working voltage for 1, "ON" and 0.5 hrs "OFF"			
Damp heat with load	±(3% +0.1Ω)	< 50mΩ	40 ±2°C, 90 to 95% RH maximum working voltage for 1,000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"		
Dry heat		< 100mΩ	at +125°C for 1,000 hrs		
Bending strength	±(1% +0.05Ω)	< 50mΩ	Bending once for 5s with 3mm		
Solderability	95% minimum	n coverage	245 ±5°C for 3s		
Resistance to soldering heat	±(1% +0.05Ω)	< 50mΩ	260 ±5°C for 10s		
Voltage proof	No breakdown	or flashover	1.42 times RCWV (RMS) for 1 min		
Rapid change of temperature	±(1% +0.05Ω)	<50mΩ	-55°C to +125°C, 5 cycles		

Storage temperature : 25 ±3°C; humidity < 80% RH

Diagram

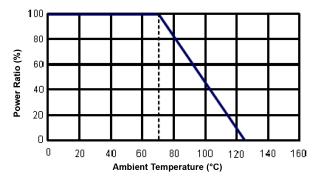




Туре	Number of Resistors	L	w	н	А	В	С	Y	Weight (g) (1,000 Pieces)
CN-21	2	0.8 ±0.1	0.6 ±0.1	0.35 ±0.1	0.3 ±0.1	0.5 ±0.1	0.15 ±0.1	0.15 ±0.1	0.5
CN-41	4	1.4 ±0.1	0.6 ±0.1	0.35 ±0.1	0.2 ±0.1	0.4 ±0.1	0.1 ±0.07	0.15 ±0.05	0.833

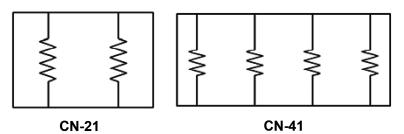
Dimensions : Millimetres

Derating Curve

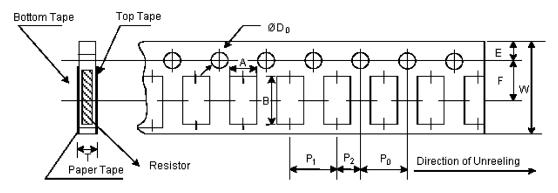




Equivalent Circuit Diagram

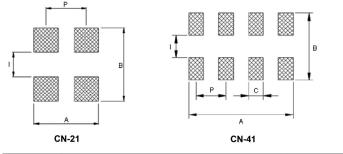


Paper Tape Specifications



Туре	Α	В	W	E	F	Po	P 1	P 2	ØD₀	Т
CN-21	0.77	0.97 ±0.05	0,00	1 75 10 1	3.5 ±0.05	4 . 0 1	2 10 05	2 10 05	1 E ^{+0.1}	05101
CN-41	±0.05	1.57 ±0.05	0 ±0.2	1.75 ±0.1	3.5 ±0.05	4 ±0.1	2 ±0.05	2 ±0.05	1.5 ₋₀	0.5 ±0.1

Recommend Land Pattern



Туре	Α	В	С	I	Р
CN-21	0.8	0.9	-	0.3	0.5
CN-41	1.4	0.9	0.2	0.3	0.4

Dimensions : Millimetres



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Part Number Explanation

MC		-	21	<u> </u>	Ļ
	Product Type		Dimensions	Resistance Tolerance	Function Code
Dimensions Resistance Tolerance Function Code Packaging Code Resistance			: J = ±5% : L = 8P4R : 6 : 7″ Ree	× 2, 41 = 020 / 4P2R I 10 K pieces 10K = 10kΩ	01 × 4



Part Number Table

Description	Part Number
Resistor, Array, 2 × 0201, 10R	MCCN-21JL610R
Resistor, Array, 2 × 0201, 1K	MCCN-21JL61K
Resistor, Array, 2 × 0201, 10K	MCCN-21JL610K
Resistor, Array, 2 × 0201, 100K	MCCN-21JL6100K
Resistor, Array, 2 × 0201, 1M	MCCN-21JL61M
Resistor, Array, 2 × 0201, 22R	MCCN-21JL622R
Resistor, Array, 2 × 0201, 220R	MCCN-21JL6220R
Resistor, Array, 4 × 0201, 10R	MCCN-41JL610R
Resistor, Array, 4 × 0201, 10K	MCCN-41JL610K
Resistor, Array, 4 × 0201, 100K	MCCN-41JL6100K
Resistor, Array, 4 × 0201, 1M	MCCN-41JL61M
Resistor, Array, 4 × 0201, 120R	MCCN-41JL6120R
Resistor, Array, 4 × 0201, 22K	MCCN-41JL622K
Resistor, Array, 4 × 0201, 330R	MCCN-41JL6330R
Resistor, Array, 4 × 0201, 33K	MCCN-41JL633K
Resistor, Array, 4 × 0201, 470K	MCCN-41JL6470K
Resistor, Array, 4 × 0201, 68R	MCCN-41JL668R
Resistor, Array, 4 × 0201, 0R0	MCCN-41JL60R
Resistor, Array, 4 × 0201, 47R	MCCN-41JL647R
Resistor, Array, 4 × 0201, 56R	MCCN-41JL656R
Resistor, Array, 4 × 0201, 560R	MCCN-41JL6560R
Resistor, Array, 4 × 0201, 2.2K	MCCN-41JL62K2

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