

Thick Film Array Chip Resistors



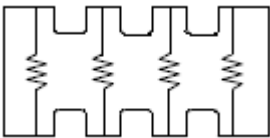
Features:

- Small size and light weight.
- Reduction of assembly costs and matching with placement machines.
- Reliability, High quality.
- Suitable for both IR reflow soldering and wave soldering.

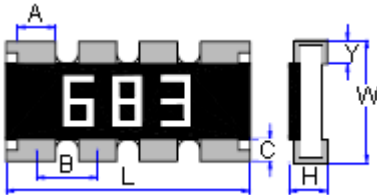
Applications:

Entertainment.
 Computer and relative products.
 Communication equipment.
 Power equipment.
 Measuring Instrument

Equivalent Circuit Diagram



Dimensions



Dimensions : Millimetres

Type	Number of Resistors	L	W	H	A	B	C	Y
0804	4	2.00 ±0.10	1.00 ±0.10	0.45 ±0.10	0.30 ±0.10	0.50 ±0.05	0.22 ±0.15	0.22 ±0.15

Dimensions : Millimetres

Electrical Characteristics Specifications

Item Type	Power Rating /Rated Current	Operating Temperature Range (°C)	Maximum Operating Voltage (V)	Maximum Overload Voltage (V)	Number of Resistors	Resistance		TCR (PPM/°C)	
						Tolerance	Range		
0804	1/16W	-55 to +125	25	50	4	±1%	E24 E96	10Ω to 1MΩ	±200
Jumper	1A						-	0Ω (<50MΩ)	

Thick Film Array Chip Resistors



Environmental Characteristics

Item	Specification		Test Method
	±1%	Jumper	
Temperature coefficient of resistance (TCR)	Within the specification		JIS C 5201 4.8 IEC 60115-1 4.8 -55°C to +125/+155°C, 20°C is the reference temperature
Short time overload	±(1.0% +0.05Ω)	<50mΩ	JIS C 5201 4.13 IEC 60115-1 4.13 2.5 times RCWV or maximum overload voltage for 5 seconds
Insulation resistance	≥10G		JIS C 5201 4.6 IEC 60115-1 4.6 Maximum overload voltage for 1 minute
Voltage proof	no breakdown or flashover		JIS C 5201 4.7 IEC 60115-1 4.7 1.42 times RCWV (RMS) for 1 minute
Substrate bending test	±(1.0% +0.05Ω)	<50mΩ	JIS C 5201 4.33 IEC 60115-1 4.33 Bending once for 5 seconds with 3mm
Resistance to soldering heat	±(0.5% +0.05Ω)	<50mΩ	JIS C 5201 4.18 IEC 60115 4.18 260 ±5°C for 10 seconds
Leaching	Individual leaching area ≤5% Total leaching area ≤10%		JIS C 5201 4.18 IEC 60068-2-58 8.2.1 260 ±5°C for 30 seconds
Solderability	>95% coverage		JIS C 5201 4.17 IEC 60115-1 4.17 245 ±3°C for 3 seconds
Endurance at upper category temperature	±(1.0% +0.05Ω)	<50mΩ	JIS C 5201 4.23 IEC 60115-1 2.23.2 at +125/+155°C for 1000 hours
Rapid change of temperature	±(0.5% +0.05Ω)	<50mΩ	JIS C 5201 4.19 IEC 60115-1 4.19 -55°C to +125/+155°C, 5 cycles
Damp heat with load	±(2.0% +0.10Ω)	<100mΩ	JIS 5201 4.24 40 ±2°C, 90 to 95% R.H. or maximum working voltage for 1000 hours with 1.5 hours "ON" and 0.5 hour "OFF"
Endurance	±(2.0 +0.10Ω)	<100mΩ	JIS C 5201 4.25 IEC 60115-1 4.25.1 70 ±2°C, or maximum working voltage for 1000 hours with 1.5 hours "ON" and 0.5 hour "OFF"

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

Thick Film Array Chip Resistors



Resistance Preferred Value Range

E6	E12	E24	E96	E6	E12	E24	E96	E6	E12	E24	E96
10	10	10	10.0				21.5				46.4
			10.2	22	22	22	22.1	47	47	47	47.5
			10.5				22.6				48.7
			10.7				23.2				49.9
		11	11.0				23.7			51	51.1
			11.3			24	24.3				52.3
			11.5				24.9				53.6
			11.8				25.5				54.9
	12	12	12.1				26.1		56	56	56.2
			12.4				27.7				57.6
			12.7		27	27	27.4				59.0
		13	13.0				28.0				60.4
			13.3				28.7			62	61.9
			13.7				29.4				63.4
			14.0			30	30.1				64.9
			14.3				30.9				66.5
			14.7				31.6	68	68	68	68.1
			15.0				32.4				69.8
15	15	15	15.4	33	33	33	33.2				71.5
			15.8				34.0				73.2
		16	16.2				34.8			75	75.0
			16.5				35.7				76.8
			16.9			36	36.5				78.7
			17.4				37.4				80.6
			17.8				38.3	82	82	82	82.5
	18	18	18.2		39	39	39.2				84.5
			18.7				40.2				86.6
			19.1				41.2				88.7
			19.6				42.2			91	90.9
		20	20.0			43	43.2				93.1
			20.5				44.2				95.3
			21.0				45.3				97.6

Above values in accordance with IEC Publication 63 (1963) and BS2488

Thick Film Array Chip Resistors



Stocked Values

Tolerance	Wattage (W)	Preferred Value Range	Range Value
1%	0.063	E96	1R5 - 1M
1%	0.1	E24	1R5 - 1M
1%	0.125	E24	10R - 1M

Part Number Table

Description	Part Number
Resistor Array, 0804, 100R	MCRE000213
Resistor Array, 0804, 470R	MCRE000214
Resistor Array, 0804, 1K	MCRE000215
Resistor Array, 0804, 4K7	MCRE000216
Resistor Array, 0804, 10K	MCRE000217
Resistor Array, 0804, 47K	MCRE000218
Resistor Array, 0804, 100K	MCRE000219

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2009.

<http://www.farnell.com>
<http://www.newark.com>
<http://www.cpc.co.uk>

