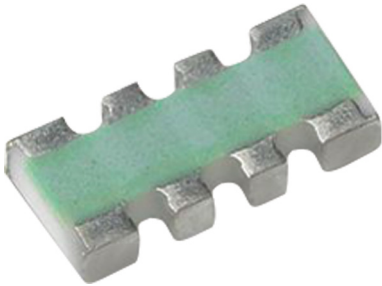


Thick Film Array Chip Resistor



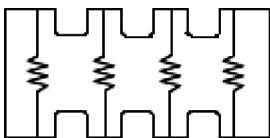
Features:

- 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

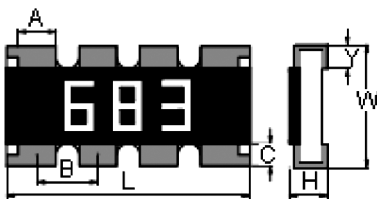
Applications:

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

Equivalent Circuit Diagram



Dimensions



Type	Number of Resistors	L	W	H	A	B	C	Y
0804	4	2 ±0.1	1 ±0.1	0.45 ±0.1	0.3 ±0.1	0.5 ±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)	Max. Operating Voltage (V)	Max. Overload Voltage (V)	Number of Resistors	Resist- ance Tolerance		Resistance Range	TCR (PPM/°C)
						±1%	E24 E96		
0804	1/16W	-55 to +125	25	50	4	±1%	E24 E96	10Ω to 1MΩ	±200
Jumper	1A					-	-	0Ω (<50MΩ)	

Thick Film Array Chip Resistor

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% +0.05Ω)	<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% +0.05Ω)	<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% +0.05Ω)	<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% +0.10Ω)	<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 +0.1Ω)	<100mΩ	JIS C 5201 4.25 IEC 60115-1 4.25.1 70 ±2°C, or maximum working voltage for 1,000 hours with 1.5 hours "ON" and 0.5 hour "OFF"

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

Thick Film Array Chip Resistor

Resistance Preferred Value Range

E6	E12	E24	E96	E6	E12	E24	E96	E6	E12	E24	E96
10	10	10	10				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				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
		13	13				28				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
							32.4				69.8
15	15	15	15	33	33	33	33.2				71.5
			15.4				34				73.2
			15.8				34.8			75	75
		16	16.2				35.7				76.8
			16.5				36.5				78.7
			16.9			36	37.4				80.6
			17.4				38.3				82.5
			17.8					82	82		84.5
	18	18	18.2		39	39	39.2				86.6
			18.7				40.2				88.7
			19.1				41.2				90.9
			19.6				42.2			91	93.1
		20	20			43	43.2				95.3
			20.5				44.2				97.6
			21				45.3				

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

Thick Film Array Chip Resistor

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

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