

Anti Sulphur Chip Resistors

ASC Series

- Special construction resists sulphide growth
- Withstands sulphur bearing fume environment
- Tested to ASTM-B809 (“Flowers-of-Sulphur”)
- Suitable for industrial, automotive and roadside uses
- RoHS compliant matt tin finish terminations



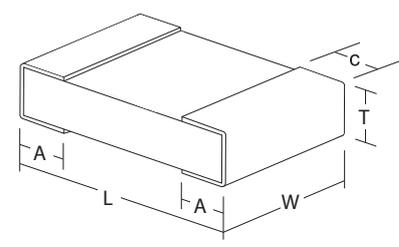
 All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

Electrical Data

		0402	0603	0805	1206	1210	2010	2512
Power rating @ 70°C	watts	0.063	0.1	0.125	0.25	0.33	0.75	1
Resistance range	ohms	1R0 - 10M						
Current Rating (zero ohm jumper)	amps	1	1	2	2	2.5	3.5	4
Limiting element voltage	volts	50		150	200		250	
TCR	ppm/°C	<10R: 200 10R to 1M0: 100 >1M0: 200						
Resistance tolerance	%	1						
Standard values		E24, E96						
Ambient temperature range	°C	-55 to +155						

Physical Data

	Dimensions (mm) and weight (mg)						Wt. nom.
	L	W	T	C	A		
0402	1.0 ±0.05	0.5 ±0.05	0.35 ±0.05	0.2 ±0.1	0.2 ±0.1	0.62	
0603	1.6 ±0.1	0.8 ±0.1	0.45 ±0.1	0.3 ±0.2	0.3 ±0.2	2.04	
0805	2.0 ±0.1	1.25 ±0.1	0.5 ±0.1	0.35 ±0.2	0.4 ±0.2	4.37	
1206	3.1 ±0.1	1.55 ±0.1	0.55 ±0.1	0.5 ±0.25	0.5 ±0.2	8.95	
1210	3.2 ±0.2	2.6 ±0.15		16.0			
2010	5.0 ±0.2	2.5 ±0.15		24.2			
2512	6.35 ±0.2	3.2 ±0.15		39.4			



Wrap-around terminations
(3 faces)

Construction

Conductors, resistive element, glass inner protection and epoxy outer protection are applied to a 96% alumina substrate. The chips are supplied with wrap-around terminations suitable for soldering. The terminations have an electroplated nickel barrier and 100% matt tin finish.

Marking

Sizes larger than 0603 are individually marked with 4 digits. The first three digits are the significant figures and the fourth defines the number of added zeros.

Size 0603, E24 values are marked with 3 digits. The first two digits are the significant figures and the third defines the number of added zeros.

Size 0603, E96 values are marked with a standard 3 digit EIA96 code.

Size 0402 has no marking.

The body protection and marking are resistant to all normal cleaning solvents suitable for printed circuits.

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.

All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

ASC Series

Performance Data

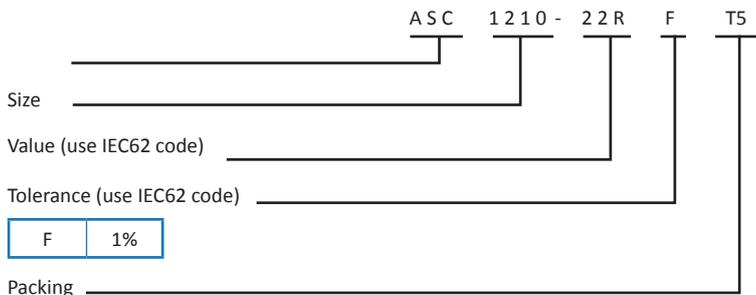
		Maximum
Load at rated power: 1000 hours cyclic load @ 70°C	ΔR%	2% + 0.1Ω
Short term overload: Lesser of 6.25 x rated power or 2 x LEV for s	ΔR%	1% + 0.05Ω
Hydrogen Sulphide: 1000 hours 3-5ppm H2S, 50 ±2°C, 92 ±1% RH, no load	ΔR%	0.5% and no visual defects
Derating from rated power at 70°C		Linear to zero at 155°C
Dry heat: 1000 hours at 155°C	ΔR%	1% + 0.05Ω
Damp heat 1000 hours 40°C 90-95% RH	ΔR%	2% + 0.1Ω
Temperature rapid change -55 to 155°C, 5 cycles	ΔR%	0.5% + 0.05Ω
Resistance to solder heat: 260±5°C for 10s	ΔR%	0.5% + 0.05Ω
Solderability: 245±5°C for 3s		≥95% coverage
Solder leaching: 260±5°C for 30s		Leached area ≤10% total, ≤5% individual
Board Flex: once for 5s, 2010 & 2512: 2mm, smaller sizes: 3mm	ΔR%	1% +0.05Ω
Insulation resistance @ 2 x LEV for 60s	ohms	>10G

Packaging

ASC resistors are supplied taped and reeled on a 7 or 10" reel as per IEC 286-3. The tape is 12mm wide embossed plastic tape for 2010 and 2512 sizes and 8mm wide paper tape for the smaller sizes.

Ordering Procedure

Example: ASC1210 at 22 ohms and 1% tolerance on a reel of 5000 pieces -



F	1%
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T10	Tape	0402	10,000/reel (7")	Standard
T5		0603, 0805, 1206, 1210	5000/reel (10")	
T4		2010, 2512	4000/reel (7")	

Note: For zero ohm jumper, substitute value and tolerance with the code R000

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