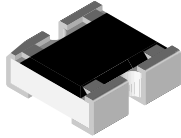


Surface Mount Chip Resistor Attenuator



FEATURES

- Single component reduces board space and component counts - replaces 3 or more components
- Tolerance matching and temperature tracking superior to individual components
- Maximum power dissipation: 75 milliwatts for CZA06S; 40 milliwatts for CZA04S
- Consult factory for extended values, non-standard tolerances, impedance matching and other attenuation values
- Frequency range: DC to 3GHz

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	POWER RATING $P_{70^{\circ}\text{C}}$ mW	IMPEDANCE Ω	ATTENUATION RANGE AND TOLERANCE	
			± 0.3 dB (L)	± 0.5 dB (H)
CZA04S	40	50	1 - 5 dB	6 - 20 dB
CZA06S	75	50 / 75 / 100 / 300 / 600	1 - 5 dB	6 - 20 dB

- Power rating depends on the maximum temperature at the solder point, the component placement density and the substrate material

IMPEDANCE	50 Ω	75 Ω	100 Ω	300 Ω	600 Ω
Attenuation in dB	1	1	1	1	1
	1.5	1.5	1.5	1.5	1.5
	2	2	2	2	2
	3	3	3	3	3
	4	4	4	4	4
	5	5	5	5	5
	6	6	6	6	6
	10	10	10	10	10
	11	11	11	11	11
	12	12	12	12	12
	13	13	13	13	13
	14	14	14	14	14
	15	15	15	15	15
	16	16	16	16	16
	17	17	17	17	17
	18	18	18	18	18
	19	19	19	19	19
	20	20	20	20	20

4-PIN CIRCUIT

CZA04S:
(Marking)

Unbalanced π Type

CZA06S:
(Marking)

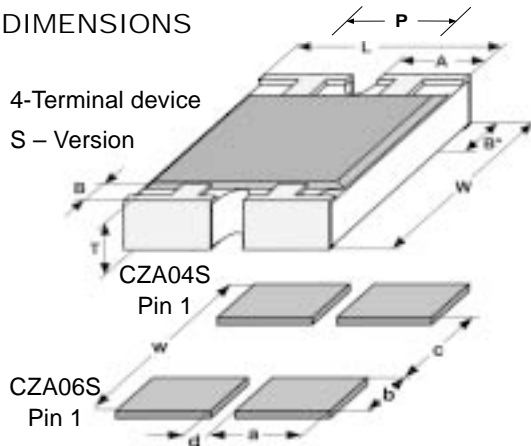
Unbalanced π Type

ORDERING INFORMATION

CZA MODEL	06S CASE SIZE	04 PIN	015 ATTENUATION Ω	050 IMPEDANCE	L ATTENUATION TOLERANCE	RT PACKAGING
	04S 06S	04	Three digits e.g. 010 = 1 dB 015 = 1.5 dB 020 = 2 dB 150 = 15 dB	First two digits are significant figures. Last digit is the multiplier 050 = 50 Ω 075 = 75 Ω 100 = 100 Ω	L = ± 0.3 dB H = ± 0.5 dB	TD (RT7) = 10K pieces (04S only) RT (RG5) = 4K pieces (06S only)

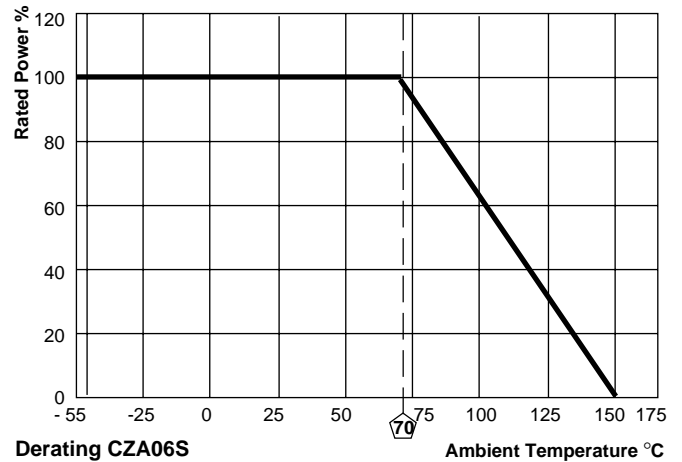
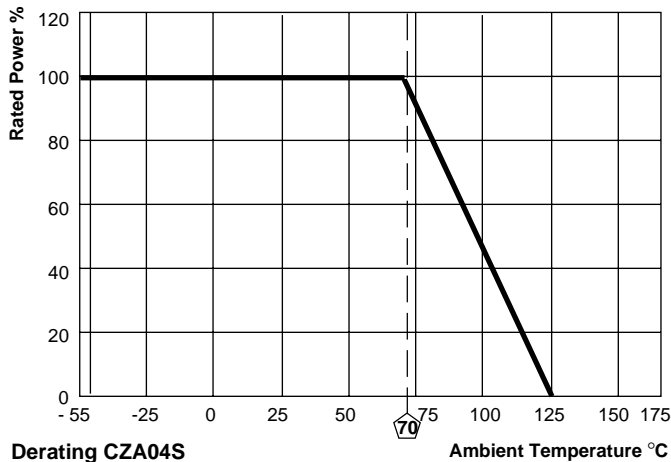


DIMENSIONS



DIMENSION	CZA04S		CZA06S		
	INCHES	MM	INCHES	MM	
L	0.039 ± 0.002	1.0 ± 0.05	0.063 ± 0.008	1.6 ± 0.1	
W	0.039 ± 0.002	1.0 ± 0.05	0.059 ± 0.008	1.5 ± 0.15	
T	0.014 ± 0.002	0.35 ± 0.05	0.020 ± 0.004	0.5	
A	0.013 ± 0.002	0.33 ± 0.05	0.024 ± 0.008	0.61 ± 0.15	
P	0.026 nom.	0.65 nom.	0.031 ± 0.008	0.79 ± 0.15	
B	-	0.15	-	0.3	
SOLDER PAD DIMENSIONS in millimeters					
	c	w	d	a	b
CZA04S	0.7	2.1	0.1	0.45	0.7
CZA06S	0.8	3.1	0.36	0.63	1.15

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	CZA04S	CZA06S	
Rated Dissipation at 70°C	mW	40	75	
RTC	ppm/ °C	± 100	± 100	
VSWR		1.2 max.	1.2 max.	
Category Temperature Range	°C	- 55 / + 125	- 55 / + 150	
Frequency Range		DC to 3GHz	DC to 3GHz	



PERFORMANCE			
TEST	CONDITIONS OF TEST	TEST RESULTS	
		0.5dB to 5dB	6dB 20dB
Endurance Test at 70°C per EIA 575-3.14	1000 hours at 70°C, 1.5 hours "ON", 0.5 hours "OFF"	± 0.2dB	± 0.3dB
Overload per EIA 575-3.6	Short time overload	± 0.2dB	± 0.3dB
Thermal Shock	per EIA 575-3.5	± 0.2dB	± 0.3dB
Moisture Resistance	per EIA 575-3.10	± 0.2dB	± 0.3dB
Resistance to Soldering Heat	10 seconds at 260°C solder bath temperature EIA 575 3.8	± 0.2dB	± 0.3db
High Temperature Exposure	per EIA 575-3.7	± 0.2dB	± 0.3dB
Low Temperature Operations	per EIA-575-3.6	± 0.2dB	± 0.3dB
Solderability & Leaching	EIA 575-3.12	95% Coverage	