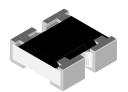




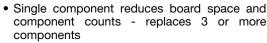
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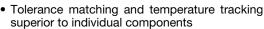
Thick Film Chip Attenuator, Surface Mount, Unbalanced π Type



FEATURES









 Maximum power dissipation: 0.075 W for CZA06S; 0.040 W for CZA04S

RoHS*

- Consult factory for extended values, non-standard tolerances, impedance matching and other attenuation values
- Frequency range: DC to 3 GHz
- Surface mount chip attenuator in a resistor array package
- Material categorization: for definitions of compliance please see <u>www.vishav.com/doc?99912</u>

Note

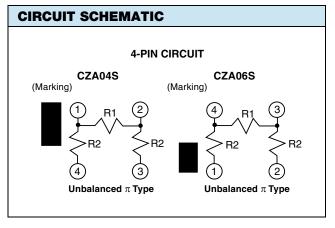
* This datasheet provides information about parts that are RoHS-compliant and/or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL POWER RATING P _{70 °C} IMPEDANCE ATTENUATION RANGE AND TOLERANCE						
GLOBAL WODEL	W	Ω	± 0.3 dB (L)	± 0.5 dB (H)		
CZA04S	0.040	50	0 dB, 1 dB to 5 dB	6 dB to 20 dB		
CZA06S	0.075	50/75/100/300/600	0 dB, 1 dB to 5 dB	6 dB to 20 dB		

Note

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
	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
Attenuation	11	11	11	11	11
in dB ⁽¹⁾	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



Note

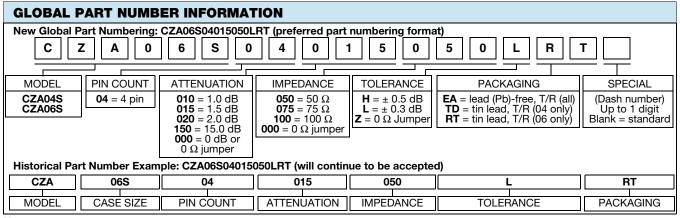
(1) Consult factory for other attenuations

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	CZA04S	CZA06S	
Rated dissipation at 70 °C	W	0.040	0.075	
VSWR		1.2 max.	1.2 max.	
Category temperature range	°C	-55 to +125	-55 to +150	
Frequency range		DC to 3 GHz	DC to 3 GHz	



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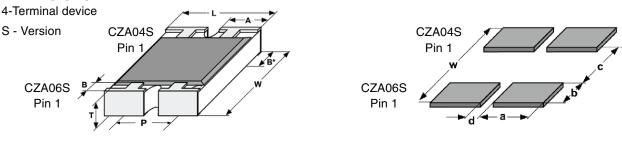
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Note

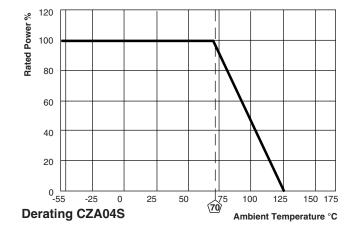
• For additional information on packaging, refer to the Surface Mount Network Packaging document (www.vishav.com/doc?31540)

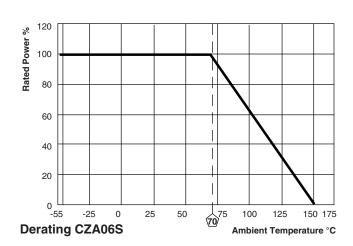
DIMENSIONS



GLOBAL	DIMENSIONS in inches (millimeters)						
MODEL	L	W	T	Α	Р	В	В*
CZA04S	0.039 ± 0.004	0.039 ± 0.006	0.014 ± 0.004	0.013 ± 0.006	0.026	0.006 ± 0.004	0.010 ± 0.004
	(1.00 ± 0.10)	(1.00 ± 0.15)	(0.36 ± 0.10)	(0.33 ± 0.15)	(0.65)	(0.15 ± 0.10)	(0.25 ± 0.10)
CZA06S	0.063 ± 0.006	0.059 ± 0.006	0.020 ± 0.004	0.024 ± 0.006	0.031	0.012 ± 0.006	0.012 ± 0.006
	(1.60 ± 0.15)	(1.50 ± 0.15)	(0.51 ± 0.10)	(0.61 ± 0.15)	(0.80)	(0.30 ± 0.15)	(0.30 ± 0.15)

GLOBAL	SOLDER PAD DIMENSIONS in inches (millimeters)					
MODEL	c w d a b					
CZA04S	0.018 (0.45)	0.083 (2.10)	0.008 (0.20)	0.018 (0.45)	0.032 (0.82)	
CZA06S	0.031 (0.80)	0.122 (3.10)	0.014 (0.36)	0.025 (0.63)	0.045 (1.15)	









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PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST RESULTS (T	TEST RESULTS (TYPICAL TEST LOTS)		
1531	CONDITIONS OF TEST	0.5 dB to 5 dB	6 dB to 20 dB		
Endurance test at 70 °C per EIA 575-3.14	1000 h at 70 °C, 1.5 h "ON", 0.5 h "OFF"	± 0.2 dB	± 0.3 dB		
Overload per EIA 575-3.6	Short time overload	± 0.2 dB	± 0.3 dB		
Thermal shock	Per EIA 575-3.5	± 0.2 dB	± 0.3 dB		
Moisture resistance	Per EIA 575-3.10	± 0.2 dB	± 0.3 dB		
Resistance to soldering heat	10 s at 260 °C solder bath temperature EIA 575 3.8	± 0.2 dB	± 0.3 dB		
High temperature exposure	Per EIA 575-3.7	± 0.2 dB	± 0.3 dB		
Low temperature operations	Per EIA-575-3.6	± 0.2 dB	± 0.3 dB		
Solderability and leaching	EIA 575-3.12	95 % coverage			

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