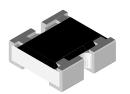




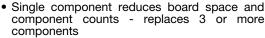
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Vishay Dale

Thick Film Chip Attenuator, Surface Mount, Balanced π Type



FEATURES





Tolerance matching and temperature tracking superior to individual components



 Maximum power dissipation: 0.075 W for CZB06S

- 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 www.vishay.com/doc?99912

Note

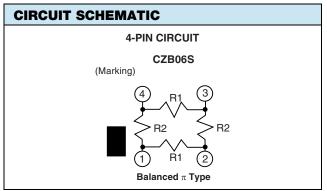
This datasheet provides information about parts that are RoHS-compliant and/or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	POWER RATING P _{70 °C}	impedance ATTENUATION RANGE AN ± 0.3 dB (L)	ATTENUATION RANGE AND TOLERANCE		
	W		± 0.5 dB (H)		
CZB06S	0.075	50/75	0 dB, 1 dB to 5 dB	6 dB to 10 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
	1	1
	1.5	1.5
	2	2
Attenuation in dB (1)	3	3
Attenuation in db (1)	4	4
	5	5
	6	6
	10	10



Note

(1) Consult factory for other attenuations

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	CZB06S		
Rated dissipation at 70 °C	W	0.075		
VSWR		1.2 max.		
Category temperature range	°C	-55 to +150		
Frequency range		DC to 3 GHz		

GLOBAL PART NUMBER INFORMATION New Global Part Numbering: CZB06S04020050LRT (preferred part numbering format) C 0 MODEL PIN COUNT **ATTENUATION IMPEDANCE TOLERANCE PACKAGING SPECIAL** $050 = 50 \Omega$ $075 = 75 \Omega$ $H = \pm 0.5 \text{ dB}$ $L = \pm 0.3 \text{ dB}$ CZB06S 04 = 4 pin010 = 1.0 dB**EA** = lead (Pb)-free, T/R **RT** = tin lead, T/R (Dash number) **015** = 1.5 dB **020** = 2.0 dB Up to 1 digit Blank = standard $100 = 10.0 \, dB$ 000 = 0 dB

Revision: 11-Jan-2021

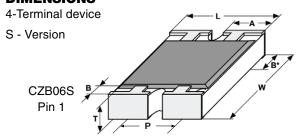
For additional information on packaging, refer to the Surface Mount Network Packaging document (www.vishay.com/doc?31540)

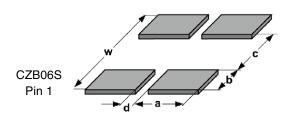


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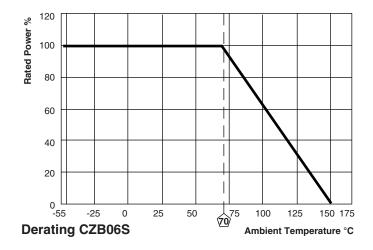
DIMENSIONS





GLOBAL	AL DIMENSIONS in inches (millimeters)						
MODEL	L	W	Т	Α	Р	В	В*
CZB06S	0.063 ± 0.006 (1.60 ± 0.15)	0.059 ± 0.006 (1.50 ± 0.15)	0.020 ± 0.004 (0.51 ± 0.10)	0.024 ± 0.006 (0.61 ± 0.15)	0.031 (0.80)	0.012 ± 0.006 (0.30 ± 0.15)	0.012 ± 0.006 (0.30 ± 0.15)

GLOBAL	SOLDER PAD DIMENSIONS in inches (millimeters)				
MODEL	С	w	d	а	b
CZB06S	0.031 (0.80)	0.122 (3.10)	0.014 (0.36)	0.025 (0.63)	0.045 (1.15)



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST RESULTS (T	TEST RESULTS (TYPICAL TEST LOTS)		
	CONDITIONS OF TEST	0.5 dB to 5 dB 6 dB to 10 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	Resistance to soldering heat 10 s at 260 °C solder bath temperature EIA 575 3.8		± 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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