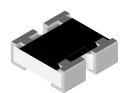




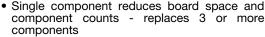
www.vishay.com

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

RoHS³

- 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

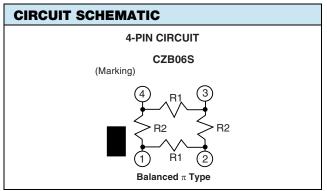
* This datasheet provides information about parts that are RoHS-compliant and/or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	POWER RATING P _{70 °C}	IMPEDANCE Ω	ATTENUATION RANGE AND TOLERANCE		
	W		± 0.3 dB (L)	± 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** $050 = 50 \Omega$ $075 = 75 \Omega$ CZB06S 04 = 4 pin010 = 1.0 dB $H = \pm 0.5 dB$ $L = \pm 0.3 dB$ **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

Note

Revision: 11-Jan-2021

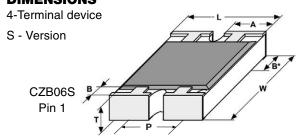
• For additional information on packaging, refer to the Surface Mount Network Packaging document (<u>www.vishay.com/doc?31540</u>)

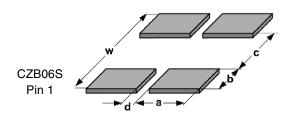


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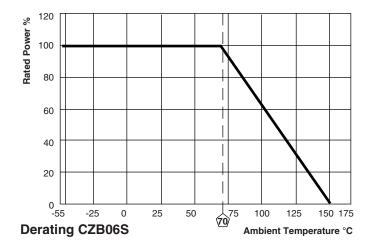
DIMENSIONS





GLOBAL	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 (1	TEST RESULTS (TYPICAL TEST LOTS)		
IESI	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	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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