

THICK FILM CHIP RESISTORS CHP, HCHP Hybrid

High-Stability Resistor Chips with Thick Film Technology



KEY BENEFITS

- Thick film resistive layer provides wide ohmic range of 0R1 up to 100 $M\Omega$
- Sputtered thin film terminations, with nickel barrier to withstand severe thermal constraints of > 1000 cycles
- 12 case sizes available

APPLICATIONS

- Instrumentation
- Calibration
- Power supplies
- RF circuits
- D/A conversion

RESOURCES

- Datasheet: CHP, HCHP Hybrid http://www.vishay.com/doc?52023
- For technical questions contact sfer@vishay.com

One of the World's Largest Manufacturers of Discrete Semiconductors and Passive Components





THICK FILM CHIP RESISTORS





COMPLIANT

FREE

High-Stability Resistor Chips with Thick Film Technology



FEATURES

- Robust terminations
- Large ohmic value range 0.1 Ω to 100 M Ω
- Tight tolerance to 0.5 %
- CHP: Standard passivated version for industrial, professional and military applications
- . HCHP: For high frequency applications
- ESCC approved see CHPHR
- · SMD wraparound chip resistor
- Halogen-free according to IEC 61249-2-21 definition
- Withstand moisture resistance test of AEC-Q200
- · Compliant to RoHS directive 2011/65/EU

Sputtered Thin Film terminations, with nickel barrier, are very convenient for high operating conditions. They can withstand thousands of very severe thermal shocks.

B (W/A), N (W/A) and F (one face) types are for solder reflow assembly.

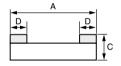
G (W/A) and W (one face) types are for wire bonding, gluing and even high temperature solder reflow.

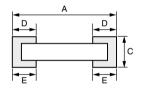
Vishay Sfernice thick film resistor chips are specially designed to meet very stringent specifications in terms of reliability, stability < 0.25 % at Pn at + 70 °C during 1000 h, homogeneity, reproducibility and quality.

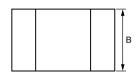
They conform to specifications NFC 83-240 and MIL-R-55342 D.

Evaluated to ESCC 4001/026 (see CHPHR datasheet).

DIMENSIONS in millimeters (inches)







ſ	CASE	Α		В		С		D/E	
L	SIZE	VALUE	TOL.	VALUE	TOL.	VALUE	TOL.	VALUE	TOL.
Revision 15-Set-10	0502	1.27 (0.050)	0.152 (0.006)	0.60 (0.024)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)
	0505	1.27 (0.050)	0.152 (0.006)	1.27 (0.050)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)
	0603	1.52 (0.060)	0.152 (0.006)	0.85 (0.033)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)
	0705/ 0805	1.91 (0.075)	0.152 (0.006)	1.27 (0.050)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)
	1005	2.54 (0.100)	0.152 (0.006)	1.27 (0.050)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)
	1206	3.05 (0.120)	0.152 (0.006)	1.70(0.067)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)
	1505	3.81 (0.150)	0.152 (0.006)	1.32 (0.052)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)
	2010	5.08 (0.200)	0.152 (0.006)	2.54 (0.100)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)
	1020	2.54 (0.100)	0.152 (0.006)	5.08 (0.200)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)
	2208	5.58 (0.220)	0.152 (0.006)	2.00 (0.079)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)
	2512	6.35 (0.250)	0.152 (0.006)	3.30 (0.130)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)
	1010	2.54 (0.100)	0.152 (0.006)	2.54 (0.100)	0.127 (0.005)	0.5 (0.020)	0.127 (0.005)	0.38 (0.015)	0.127 (0.005)

 $^{^{\}star}$ Pb containing terminations are not RoHS compliant, exemptions may apply