

CHUKOH FLOTM Copper-clad laminated CH2868D

OUTLINE

This is a copper-clad laminated board using fluoro resin impregnated glass cloth.

The transmission loss is extremely low in a millimeter-wave band and ensures high peel strength when a profile free copper foil is used.

CHARACTERISTICS

Quite excellent in following properties :

- Very low dielectric loss tangent
- High performance
- in the high frequency band.

APPLICATIONS

- Automotive radar
- Anti-collision radar
- ITS

SPECIFICATION

Product code	Dimension (mm)	Dimension Tolerance (mm)	Thickness (mm)	Thickness Tolerance (mm)
CH2868D	460 W × 610 L	+5, -0 × +5, -0	0.135	±0.015
			0.245	±0.020

*Product thickness and tolerance figures include copper foil.

PERFORMANCE

Test item	Unit	CH2868D	CGP-500	Test method
		Total thickness : 0.245mm	Total thickness : 0.33mm	
Transmission loss	dB/mm	0.056	0.09~0.10	CPW Transmission loss 76GHz

Test item	Unit	Measured value	Test method
Relative dielectric constant	-	2.28	Disk resonator method(12GHz)
Dielectric tangent	-	0.0015	
Volume resistivity	Ω·cm	5×10 ¹⁶	A
		1×10 ¹⁶	C-96/40/90
Surface resistivity	Ω	6×10 ¹⁶	A
		4×10 ¹²	C-96/40/90
Insulation resistance	Ω	1×10 ¹⁵	A
		1×10 ¹⁴	D-2/100
Water absorption	%	0.005	E-24/50+D-24/23
Flammability	ppm/°C	X 20	-65°C~150°C
		Y 20	
		Z 69	
Specific gravity	-	2.2	A
Peel strength	kN/m	1.2	A
Flammability	-	Incombustible	-

*Substrate thickness : 0.25mm Copper foil thickness : 12μm

*Above values in the table are measured values, not guaranteed.

*CGP-500 is a standard product of Chuko FlowTM copper clad laminate.

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Caution

- Do not use in applications in contact with the human body such as medical care, etc.
- Dispose products in compliance with the related laws and regulations and absolutely do not incinerate them.
- Do not use the product higher than the maximum continuous service temperature.
- Carefully read the catalog, product safety data sheet (SDS), and fluoroplastic instruction manual in order to maintain functions essential to products and use products safely.

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