## Panasonic INDUSTRY





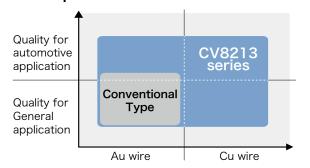
## CV8213 series

# Delamination free\* surface mounting semiconductor encapsulation materials

Achieved delamination free\* with high adhesion strength and low stress property.

High heat resistance for automotive application (AEC-Q100/grade 0)

#### Concept



#### Delamination free\* achieved by MRT(Moisture reflow test)

		Conventional	CV8213 series
MRT Delamination	Lead finger	3/6	0/6
	Die paddle	0/6	0/6
	Chip(front)	0/6	0/6
	Chip(back)	5/6	0/6
Condition	Level 2aa (85°C/65%RH/120h+IR(260)×3)		
PKG	28□LQFP 256pin CuL/F die size 6×6×0.35mmt (SiN)		
Molding condition	180°C/60scure, Injection pressure 9.8MPa, Injection time 7.5s (Out of cure time)		

#### Conventional





CV8213 series





### Delamination free\* achieved at 1000 cycles of TCT (Thermal Cycle Test)

LF surface: Copper paddle, T post: Ni MLS1: Moisture Sensitivity Level Tesiting Level1 Die Attach : Solder paste TCT : -65°C⇔175°C

	After MSL 1	500 cycles	1000 cycles
Conventional		Delamination Delamination	Delamination.
CV8213 series			

#### General properties

	1	
Item	Unit	CV8213 series
Tg	℃	125
C.T.E. (α1/α2)	ppm/°C	10 / 46
Flexural modulus (260°C)	GPa	0.4
Moisture Absorption	%	0.13
рН	_	7.0

<sup>\* 1.</sup> Based on Panasonic's internal evaluation samples. No separation observed between the lead frame and the semiconductor encapsulation material were detected using on measurements made using SAT (Scanning Acoustic Tomography) Equipment.

SAT (Scanning Acoustic Tomography) Equipment.
2. Panasonic does not guarantee that no delaminated parts will be detected under any evaluation conditions.

Please see our website for Notes before you use.

The above data are typical values and not guaranteed values.

<sup>3.</sup> With respect to delamination, the company recommends that all users evaluate the stability of parts and make a decision with respect to adoption.