

ACF Anisotropic Conductive Film
3T Frontiers Pte Ltd

Standard Specifications
ACF for Camera Module (CM)

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	Items		Unit	CM-1	CM-2	Remarks
Standard Specification	Thickness		μm	25, 30	30	Customer option
	Width		mm	≥ 5	1.5, 2.0	Customer option
	Length		m	50, 100	50, 100	Customer option
	No. of layer		-	1 layer	1 layer	
	Release Film	Type	-	White PET	White PET	
		Thickness	μm	50 (±5)	50 (±5)	
	Conductive Filler	Type	-	Au/ Ni/ Polymer	Au/ Ni/ Polymer	
		Diameter	μm	20	10	
		Density	pcs/mm ²	350	1,200	
	Min. insulation Space		μm	80	75	
Min. Contact area		μm ²	90,000	50,000	Avg-3σ ≥5	
Bonding Conditions	Pre-bonding	Temperature	°C	60 ~ 80	70 ~ 80	Ultimate Temp of ACF
		Time	sec	1 ~ 3	1 ~ 3	
		Pressure	Mpa	0.5 ~ 3	≥ 1.0	
	Final bonding	Temperature	°C	120 ~ 180	180 ~ 200	Ultimate Temp of ACF
		Time	sec	≥ 6	≥ 7	
		Pressure	MPa	0.2 ~ 0.3	1 ~ 3	
Shelf Life	Before open		Month	6	6	-5°C ~ 5°C
	After open		Week	3	1	25°C, 75%RH or below
Characteristics	Connection Resistance		Ω	< 1	< 1	4-point method
	Insulation Resistance		Ω	> 10 ⁹	> 10 ⁹	2-point method
	Adhesion Strength (at 25C)		gf/cm	> 600	> 800	90° Peel strength 50mm/min
	Acceptable Reaction Rate		%	> 75	> 80	by FT-IR method

Remarks : All specifications are subjected to changes without prior notice. Please contact us for latest datasheet/test report.

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