

ACF Anisotropic Conductive Film
3T Frontiers Pte Ltd

Standard Specifications
ACF for COF Chip-on-Flex

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	Items		Unit	COF-1	COF-2	Remarks
Standard Specification	Thickness		μm	8, 12, 16, 20, 30, 40	8, 12, 16, 20, 30, 40	Customer option
	Width		mm	2, 5, 6, 10, 12 ...	2, 5, 6, 10, 12 ...	Customer option
	Length		m	50, 100, 200	50, 100, 200	Customer option
	No. of layer		-	2 layer	1 layer	
	Release Film	Type	-			
		Thickness	μm	50 (±5)	50 (±5)	
	Conductive Filler	Type	-	Au coated Polymer	Au coated Polymer	
		Diameter	μm	5	3	
		Density	pcs/mm ²	4,500	40,000	
	Min. insulation Space		μm		20	
Min. Contact area		μm ²	20,000	10,000	Avg-3σ ≥5	
Bonding Conditions	Pre-bonding	Temperature	°C	80 ± 10	80 ± 10	Ultimate Temp of ACF
		Time	sec	3 ~ 5	3 ~ 5	
		Pressure	Mpa	0.2 ~ 3	0.2 ~ 3	
	Final bonding	Temperature	°C	180±10	180±10	Ultimate Temp of ACF
		Time	sec	20	20	
		Pressure	MPa	50 ~ 150	50 ~ 150	
Shelf Life	Before open		Month	6	6	-5°C ~ 5°C
	After open		Week	1	1	25°C, 75%RH or below
Characteristics	Connection Resistance		Ω			4-point method
	Insulation Resistance		Ω			2-point method
	Adhesion Strength (at 25C)		gf/cm			90° Peel strength 50mm/min
	Acceptable Reaction Rate		%			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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