

TA-I TECHNOLOGY CO., LTD



Part Designation	Marking	Rated Current	$\begin{array}{c} \text{Resistance} \\ (m \Omega) \\ \text{Tolerance} \\ \pm 25\% \end{array}$	Typical I²t (A² s)	Fusing Time	Rated Voltage	Breaking Capacity	Body Temperature rising
CFM06V5T0R50	F	0.50A	450.00	0.010				
CFM06V5T1R00	L	1.00A	115.00	0.059				
CFM06V5T1R50	Р	1.50A	59.00	0.130				
CFM06V5T2R00	S	2.00A	33.00	0.210	Open within			
CFM06V5T3R00	3	3.00A	15.90	0.710	1~120sec.	DC 50V	DC 50V	< 75℃ at
CFM06V5T4R00	W	4.00A	10.00	0.960	at 200%	DC 63V	50A	100% rate
CFM06V5T5R00	Y	5.00A	6.77	2.050	current			current
CFM06V5T6R00	<u>6</u>	6.00A	6.30	3.470				
CFM06V5T7R00	7	7.00A	4.70	5.040				
CFM06V5T8R00	8	8.00A	4.30	6.500				

Note:

1. Typical I²t value is measured at 10x-rated current, Application with surge over 10x-rated current.

Please confirm with us.

2.Rate voltage 63V UL only.



- 6. Temperature Derating Curve
 - 6.1 Normal Ambient Temperature: 25℃
 - 6.2 Operating Temperature: -55℃~150℃, whit proper Derating factor as below:



7. Reliability Tests

Parameter	Test Method				
	J-STD-002, Condition B				
Solderability	aging 4 hours at 150 °C dry heat Lead-free solder bath at				
	24515 C 101 510.5 Seconds 260+3 °C for 7+0 5 seconds				
	MIL-STD-202. Method 210. Condition B				
Resistance to solder Heat	Immerse the specimens in and eutectic solder at $260\pm5^{\circ}$ C for				
	10±1S .				
	MIL-STD-202, Method 106				
Moisture Resistance	T=24 hours / Cycle ,10Cycles .				
	Notes: Steps 7a& 7b not required. Unpowered .				
	MIL-STD-202, Method 107, Condition B				
Thermal Shock	-55°C/+155°C. Note: Number of cycles required:300, Maximum				
	transfer time-20 seconds, Dwell time-15 minutes. Air-Air.				
	MIL-STD-202, Method 213, Condition A				
Mechanical Shock	Wave Form : Tolerance for half sine shock pulse.				
	Peak value is 100g's. Normal duration(D) is 6(ms)				
	MIL-STD-202, Method 201				
Vibration	5 g's for 20 min., 12 cycles each of 3 orientations.				
	Note: Test from 10-2000 Hz.				



Lead Free Metal Foil Chip Fuse AEC-Q200 Tested 9

C`

B

US

EN 60127-7 IEC 60127-7 EN 60127-1 IEC 60127-1

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Terminal Strength	IEC 60115-1 4.32 Force of 1.8kg for 10±1 seconds.
High Temperature Storage	MIL-STD-202, Method 108 with exemptions 1000 hrs. @ T=125°C. Unpowered. Measurement at 24±2 hours after test conclusion.
Temperature Cycling	JESD22 Method JA-104, Test Conditions B and N 1000 Cycles (-40°C to +125°C) Measurement at 24±4 hours after test conclusion. 30min maximum dwell time at each temperature extreme. 1 min. Maximum transition time.
Bias Humidity	MIL-STD-202, Method 103 1000 hours 85°C/85%RH. Note: Specified conditions: 10% of operating current. Measurement at 24±2 hours after test conclusion.
Operational Life	MIL-STD-202 Method 108, Test Condition D 1000 hours TA=85°C at 70% rated current. Measurement at 24±2 hours after test conclusion
Resistance to Solvent	MIL-STD-202 Method 215 a:Isopropyl Alcohol : Mineral Spirits= 1 : 3 b:Terpene Defluxer (Bioact EC-7R) c:Deionized water : Propylene Glycol : Monomethyl Ether : monoethanolamine = 42 : 1 : 1
Board Flex (Bending)	AEC-Q200-005 3mm deflection
Carrying capacity	Rated current ,4hr
Fusing Time	200% of its rated current
Interrupting Ability	After the fuse is interrupted ,rated voltage applied for 30sec again
Temperature Rise	100% of its rated current, Measure of surface temperature
Residual Resistance	Measure DC resistance after fusing
Low Temperature Storage	1000 hrs. @ T=-55°C. Unpowered. Measurement at 24±2 hours after test conclusion.

8. Marking

Symbol	for	Rating	Current
Symbol	101	naung	Current

- ,										
Symbol	F	L	Р	S	3	W	Y	<u>6</u>	7	8
Rating Current(A)	0.5	1.0	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0

1		Lead I	Free	Me	tal I	Foil	Chip	Fus	se	Docume	nt No	TCFM-060S001E
		ſ	A	EC-G	200	Teste	ed ®			Issued	date	2021/9/15
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9. T	9. Taping & Reel 9.1 Taping Dimensions 4mm pitch paper											
	Bottom Tape Top Tape											
		H H Paper Ta	Resistor					Po		ction of		∑ ling ►
	Packing	Туре	Α	В	W	F	Е	P ₁	P ₂	P ₀	D ₀	Т
	Paper Tape	CFM06	1.1 <u>±</u> 0.1	1.9 <u>+</u> 0.1	8.0 <u>±</u> 0.2	3.5 <u>+</u> 0.05	1.75 <u>+</u> 0.1	4.0 <u>+</u> 0.1	2.0±0.05	4.0±0.1	+0 φ 1.5 -0	0.64±0.1
	Type seriesPaper TapeType Series4 mm pitch180mm/R5000										Jnit: mm	
	9.2 Reel Specifications											
							ΦB ΦA					Unit: mm
	Series	φΑ		φΒ		φC			W			
	CFM06	178±2.	.0	60.0 <u>+</u>	1.0	13	.0±1.0		9.0±1	.0	11	.4 <u>+</u> 2.0







\searrow	Land pattern	Dimension						
Type Size		а	b	С				
CFM	06 (0603)	0.7~0.9	2.0~2.2	0.8~1.0				

14. Recommend IR – Reflow profile : (solder : Sn96.5 / Ag3 / Cu0.5)



15. Approval by UL248-14

The fuses have been approved by UL. File No. of UL Recognition is E241710



17. ECN

Engineering Change Notice: The customer will be informed with ECN if there is significant modification on the characteristics and materials described in Approval Sheet.

18. Manufacturing Country & City :

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