



新北市汐止區新台五路一段75號6樓之二

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SPECIFICATION AND PERFORMANCE

Series	217C-AE05	File	217C-AE05_Spec_1	Date	2024/01/25
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Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 217C-AE05

Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

RoHS:

All material in according with the RoHS environment related substances list controlled.

MATERIALS			
NO.	IO. PART NAME DESCRIPTION		
1	HOUSING	Thermoplastic, UL94V-0, Black	
2	CONTACT	Copper alloy, 15u" gold plating on contact area, gold flash on solder area, nickel under plating over all	
3	SHELL	Stainless Steel, Nickel plating	
4	GLUE	EPOXY	

RATING		
Rated Current	5A	
Rated Voltage	20VAC Max.	
Operating Temperature	-40°C to +85°C	
Durability	10,000 cycles	

ELECTRICAL			
Item	Requirement	Test Condition	
Low level Contact resistance	$40m\Omega$ max(initial) $10m\Omega$ max change for post test	Subject mated contacts assembled in housing to 20mV max open circuit at 100mA max. EIA-364-23B	
Dielectric withstanding voltage	No flashover& spark over & excess leakage & breakdown	Test voltage 100V AC between adjacent contacts of mated and unmated connector assemblies for one minute. Interval of shield case and contacts too, in the same way EIA-364-20B	
Insulation resistance Initial: 100 M Ω min. Final(post test) 100 M Ω min.		Test voltage 100±10V DC between adjacent contacts of mated and unmated connector assemblies interval of shield case and	



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	contacts too in the same way. EIA-364-21C

MECHANICAL			
Item	Requirement	Test Condition	
Mating force	0.5~2Kgf	Measure force necessary to mate connector assemblies at maximum rate of 30cycles/min. EIA-364-13	
Unmating force	0.8~2Kgf	Measure force necessary to mate connector assemblies at maximum rate of 30cycles/min. EIA-364-13	
Durability	Mating force: 0.5~2Kgf Unmating force: 0.8~2Kgf Contact resistance:10mΩ max change for post test appearance :no breakdown	Mate and unmated connector assemblies for 10,000 cycles at. Cycle rate of 500 cycles per hour if done EIA-364-09	

ENVIRONMENTAL			
Item	Requirement	Test Condition	
Thermal shock	Contact resistance: $10m\Omega$ max Change for post test	Mated connector -40±3°C(30minutes),+85±2°C(30minutes) Perform this 1 cycle ,repeat 10 cycles EIA-364-32C condition 1	
Humidity	Withstand voltage: no breakdown Insulation resistance: $100~\text{M}\Omega$ Min. Contact resistance: $10\text{m}\Omega$ max. change for post test Appearance : no breakdown	Mated connector 25~65°C, 90~95% RH, 1 cycle:24 hours, 4cycles EIA-364-31B	
Degree of protection	No significant change in pressure < 30 Pa	Test pressure: 15kPa~17kPa Test duration: 5 second	

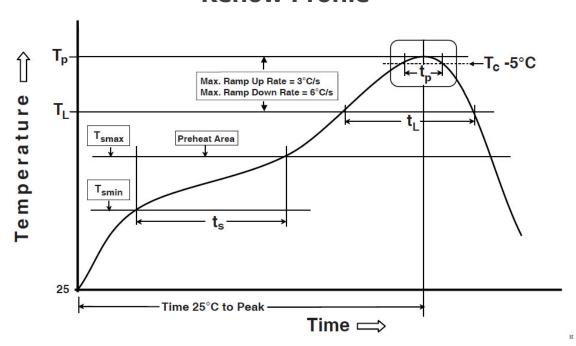
SOLDER ABILITY			
Item	Requirement	Test Condition	
Solder-ability	Solder tails shall pass 95% min coverage	Solder temperature:265±5°C Duration:15±0.5sec .EIA-364-52	





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Reflow Profile



Preheating temperature: $150 \sim 200$ °C, $60 \sim 120$ seconds Liquidus temperature (TL): 217°C, $60 \sim 150$ seconds

Peak temperature: 260°C

Time within 5 °C of peak temperature (Tc): 255°C, 30seconds