

PART NO.	DESCRIPTION:	PAGE 1 OF 3
FCR68102	2.5mm PC JACK SOCKET JY029	DATE: 4 th JAN 2022

1. SCOPE: PRODUCT SPECIFICATION FOR: FC68102

2. RATED:

_,,	
RATED VOLTAGE	DC 12V
RATED CURRENT	DC 1A
TEMPERATURE RANGE	-25~70°C
HUMIDITY RANGE	85% RH MAX
TEST CONDITIONS	UNLESS OTHERWISE STATED, ALL MEASUREMENTS AND TESTS SHALL BE MADE AT A TEMPERATURE OF 5°C~35°C AND RELATIVE HUMIDITY OF 45%~85%

3. PRODUCT DIMENSIONS:

SEE DRAWING FC68102

4. ELECTRICAL EFFICIENCY

ITEM	CONDITION	RESULT/VALUE
INSULATION	A VOLTAGE OF 500V DC SHALL BE APPLIED	
RESISTANCE	FOR 1 MIN. AFTER WHICH MEASUREMENT SHALL BE MADE	≥100MΩ
CONTACT RESISTANCE	MEASUREMENT SHALL BE MADE AT 1KHZ WITH 100mA OR LESS.	
	VIRGIN PART:	≤30mΩ
	AFTER HUMIDITY TEST:	≤50mΩ
	AFTER LIFE TEST:	≤60mΩ
DIELECTRIC STRENGTH	WITHSTAND 500V AC FOR 1 MIN BETWEEN CONDUCTORS	PASSED



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5. MECHANICAL EFFICIENCY

ITEM	CONDITION	INSERTION	WITHDRAWAL
		FORCE	FORCE
INSERTION	THE FORCE SHALL BE		
FORCE AND	DETERMINED USING THE		
WITHDRAW	TEST PLUG SHOWN IN FIG 1.		
FORCE			
	BEFORE LIFE TEST –	0.4~2.0kgf	0.4~2.0kgf
		(3.92~19.6N)	(3.92~19.6N)
	AFTER LIFE TEST –	0.3~2.0kgf	0.3~2.0kgf
		(2.94~19.6N)	(2.94~19.6N)

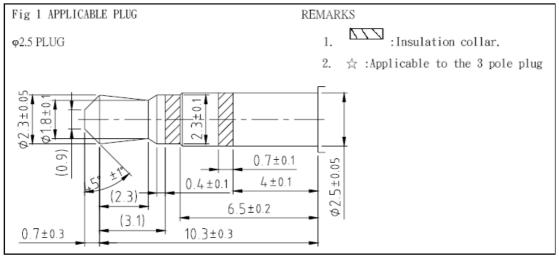
ITEM	CONDITION	RESULT/VALUE
LIFE TEST	THE JACK SOCKET SHALL WITHSTAND 5,000 CYCLES INSERTION AND WITHDRAWAL OF A MATING PLUG AT THE RATE OF 20 TO 30 CYCLES PER MINUTE.	PASSED
SOLDER TEST	280°C ±5°C FOR 5 SECONDS	PASSED
HUMIDITY TEST	THE JACK SOCKET SHALL BE SUBJECTED TO A TEMPERATURE OF 50°C±2°C AT A RELATIVE HUMIDITY OF 90% TO 95% FOR 24 HOURS	PASSED
ROHS COMPLIANCY	THIS PART MUST NOT CONTAIN ANY SUBSTANCES SPECIFIED BY THE REQUIREMENTS OF ROHS	PASSED



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6. TEST GAUGE DIMENSIONS



7. MATERIALS

DESCRIPTION	MATERIAL	FINISH
BODY MOULDING	POM – DURACON M90-44	COLOUR - BLACK
CONTACTS	PHOSPHOR BRONZE	SILVER PLATED

8. MATERIAL - UL YELLOW CARD

4/01/2022, 10:01		UL Certification: E45034 - Component - Plastics					
iq.ul.com							
PROSPECTOR® View additional material info	CLICK TO CONT mation including performance and process	Prospector m	tion presented on the UL Pr akes substantial efforts to a es and strongly encourages	ssure the accuracy of t	nis data. However, UL F	Prospector assumes no	responsibility for the
Component - Plastics	3						E45034
Guide Information							
POLYPLASTICS 18-1 KONAN, 2-CHOM	S CO LTD IE, MINATO-KU TOKYO 108-8280) JP					
	M140(b), M270(b) llene (POM) "Duracon", furnishe	ed as pellets					
Color	Min. Thk (mm)	<u>Flame</u> Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.75	HB	-	-	-	-	-
	1.5	НВ	4	0	105	90	90
	3.0	HB	3	0	105	90	90
	6.0	HB	3	1	105	90	90
Compa	arative Tracking Index (CTI): -		Inclined	l Plane Trackin	g (IPT) kV: -		
	Dielectric Strength (kV/mm): -		Volume	Resistivity (10	k ohm-cm): -		
High-Voltage	Arc Tracking Rate (HVTR): 0		Surface Resi	stivity (10 ^x ohn	ns/square): -		
	Dimensional Change (%): -		High Volt, Low				
(b) - Followed	by -01, -02, -04. May also be followed	by additional letters	and numbers.				
ANSI/UL 94 small-scale te plastic n	ist data does not pertain to building materia naterials used in the components and parts	als, furnishings and rela of end-product device	ated contents. ANSI/UL : s and appliances, where	94 small-scale test of the acceptability of	lata is intended solel the combination is d	y for determining the letermined by UL.	e flammability of
Report Date: 1970-01-1	4						
Last Revised: 2020-02-0	6		© 2022 UL LLC				C TUU

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