



**Cliff Electronic Components Limited.**

<b><u>PART NO.</u></b> FCR68102	<b><u>DESCRIPTION:</u></b> 2.5mm PC JACK SOCKET JY029	PAGE 1 OF 3 DATE: 4 <sup>th</sup> JAN 2022
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**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 RESISTANCE	A VOLTAGE OF 500V DC SHALL BE APPLIED FOR 1 MIN. AFTER WHICH MEASUREMENT SHALL BE MADE	$\geq 100\text{M}\Omega$
CONTACT RESISTANCE	MEASUREMENT SHALL BE MADE AT 1KHZ WITH 100mA OR LESS.  VIRGIN PART:  AFTER HUMIDITY TEST:  AFTER LIFE TEST:	$\leq 30\text{m}\Omega$  $\leq 50\text{m}\Omega$  $\leq 60\text{m}\Omega$
DIELECTRIC STRENGTH	WITHSTAND 500V AC FOR 1 MIN BETWEEN CONDUCTORS	PASSED



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**5. MECHANICAL EFFICIENCY**

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

