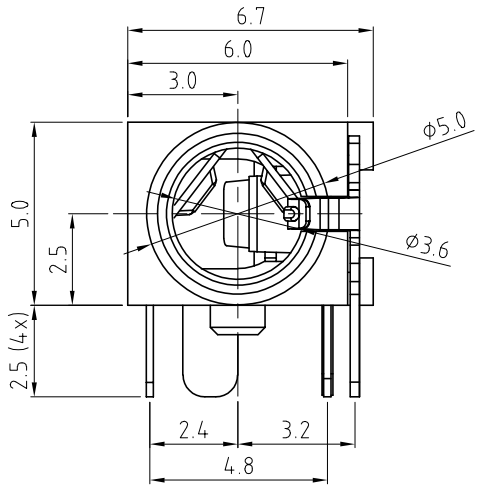
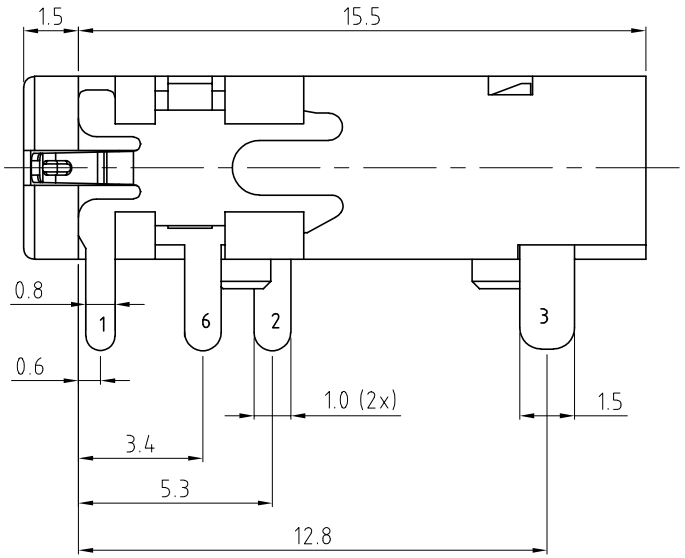
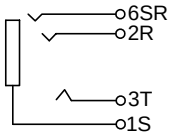
CLIFF

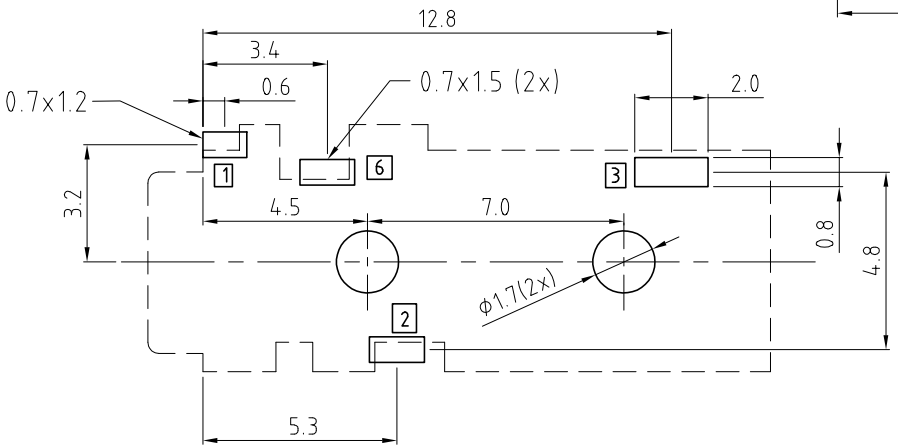
ISS.	AMEND	DATE
1	ISSUED	27/09/11
2	UPDATED+DEL FC68127	25/10/21



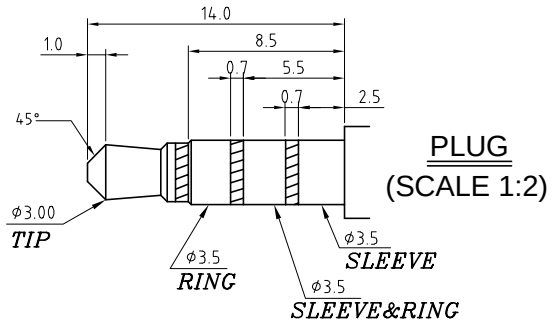


SCHEMATIC





P.C.B LAYOUT
BOTTOM VIEW



PLUG
(SCALE 1:2)

DESCRIPTION	MATERIAL	FINISH
HOUSING	LCP	BLACK
TIP CONTACT	PHOSPHOR BRONZE	SILVER PLATE
RING CONTACT	PHOSPHOR BRONZE	SILVER PLATE
SLEEVE RING CONTACT	PHOSPHOR BRONZE	SILVER PLATE
SLEEVE CONTACT	PHOSPHOR BRONZE	SILVER PLATE

RoHS COMPLIANT

TOLERANCE
NO DEC. PLACE ± 0.50
1 DEC. PLACE ± 0.30
2 DEC. PLACE ± 0.15
HOLE Ø ± 0.10
ANGLES ± 3°
UNLESS
OTHERWISE STATED

Cliff Electronic Components Ltd.
76 Holmethorpe Avenue, Holmethorpe Industrial Estate,
Redhill, Surrey, RH1 2PF, England, UK
Tel: 01737-771375 Fax: 01737-766012 Website: www.cliffuk.co.uk

DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED. WORK TO DIMENSIONS. REMOVE ALL BURRS. IF IN DOUBT ASK. | 3rd ANGLE PROJECTION: | DO NOT SCALE

MATERIAL: SEE TABLE
FINISH: SEE TABLE
DRAWN: T.J.O. | APPROVED: D.P.J.

TITLE: 3.5mm PHONE JACK - 4 POLE
DRWG. No. FC68126 | FORM: A4DRWGH

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SPECIFICATIONS FOR
PART NUMBER: FC68126

A) SCOPE

This specification covers: 4 Pole Ø3.5 PHONE JACK

B) CHARACTERISTICS

Standard atmospheric specified, measurements shall be made at temperature , humidity and air pressure within the following limit :

Ambient temperature	:	5	℃	to	35	℃
Relative humidity	:	45	%	to	85	%
Air pressure	:	85	Kpa	to	106	Kpa

Operating temperature range	:	-20	℃	to	60	℃
Storage temperature range	:	-25	℃	to	70	℃

C) ELECTRICAL CHARACTERISTICS

ITEM	TEST CONDITIONS	SPECIFICATION
(C1)Rated Voltage Rated Current		DC 16V 20mA~0.3A
(C2)Insulation Resistance	A voltage of 500V DC shall be applied to the terminals. After which measurement shall be made. DC 500V	100M Ω or more ≧ 100M Ω

ITEM	TEST CONDITIONS	SPECIFICATION
(C3)Contact Resistance	Measurement shall be made at 1 K Hz with 100 mA or less (With the test plug as show in item G) <1>Initial before any testing a、Pin to contact or(T-TS, R-RS) (N.C.). b、Plug shield to socket or (T,R,S,) (N.O.). <2>After life test with mating plug a、Pin to contact or (T-TS, R-RS) (N.C.). b、Plug shield to socket or (T,R,S,) (N.O.).	Initial： a、30mΩ or Less ≦ 30mΩ b、50mΩ or Less ≦ 50mΩ After life： a、60mΩ or Less ≦ 60mΩ b、100mΩ or Less ≦ 100mΩ
(C4)Dielectric Strength	Withstand 0.5 mA (Trip current) 500V AC(50 or 60 Hz) between any open terminal for 1 minute. (Open terminal: Between each terminal which should not make contact , before plug insert to socket R-T,R-S, after plug insert	Without distinct Damage

	to socket R-RS, T-TS, … .)	

D) . MECHANICAL CHARACTERISTICS

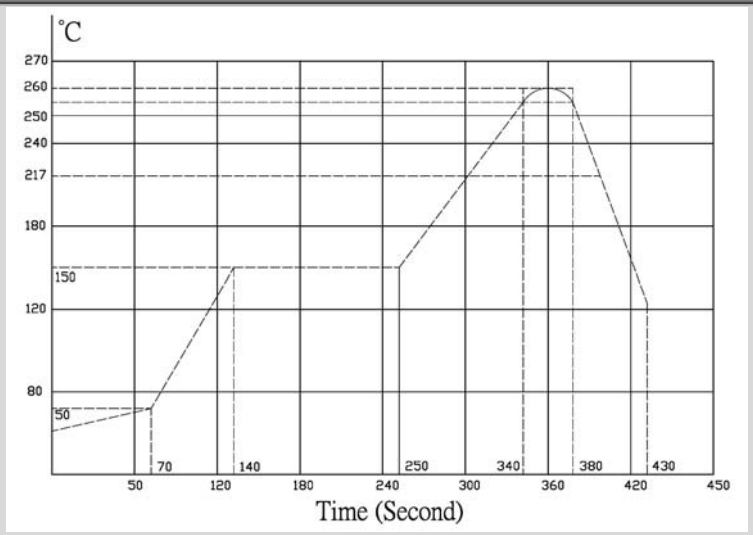
ITEM	TEST CONDITIONS	SPECIFICATION
(D1)Insertion force and Withdrawal force	Initial (With the test plug as show in item G)	Insertion force 0.3kgf ~ 3kgf
		Withdrawal force 0.3kgf ~ 3kgf
	After life test (With the test plug as show in item G)	Insertion force 0.2kgf ~ 2kgf
		Withdrawal force 0.2kgf ~ 2kgf
(D2)Terminal strength	Terminals must withstand a 500g minimum pull for 10 seconds before movement or break from housing occurs , but deformation of terminal is authorized .	

E) . ENDURANCE CHARACTERISTICS

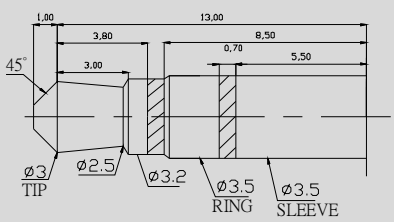
ITEM	TEST CONDITIONS
(E1)Life test	The life test shall consist of 5,000 cycles of insertion and withdrawal with test plug(Show in item G), at a rate of 20 to 30 cycles per minute under no load .

(E2)Soldering test	The terminal of JACK tested shall be dipped into soldering flux or equivalent for 5 ~ 10 seconds and then immersed into molten solder Sn at 260 ± 5℃ for 3 ± 0.5 seconds , the coverage should more than 95% .
(E3)Soldering heat	The terminal for a printed circuit board . Temperature of solder : 260 ± 5℃ Dip time : 5 ± 1 seconds .
(E4) Hand Soldering Temperature	Temperature of solder : 350 ± 10℃ Dip time : 3 ± 0.5 seconds .

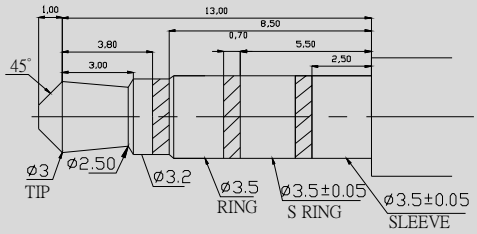
F) Temperature graph

ITEM	TEST CONDITIONS
The temperature peak withoutlead.	 Pre-heating temperature is 25 ~ 150℃,for a duration about 250 seconds。 The peak temperature is 260℃, the duration for 10 seconds.

G) . MATED PLUG



STEREO PLUG



4P PLUG

25/10/2021	APVD	Jacky	CHKD	Dragon	MAKE	Roy