



NOTE: ALL DIMS ARE IN mm.

14-100	09/05/14	H	CHANGE THE COLOR OF HOUSING FROM WHITE TO BALCK
14-025	03/25/14	G	TO CHANGE THE SIZE OF THE PRODUCT
09-145	05/19/09	F	ADDED COLOR OPTION '160'
09-023	03/04/09	E	THE DIMENSION 1.25mm WAS 1.5mm
08-376	10/21/08	D	ADDED SPEC AS PAGE 2
08-172	05/08/08	C	ADDED COLOR NUMBER '150'
08-147	04/15/08	B	ADDED COLOR NUMBER '140'
ECN#	DATE	SYM	REVISION RECORD

PROJECTION	
SCALE	N/A
TOLERANCE	EXCEPT AS NOTED
DEC. MILLIMETERS	N/A
DEC. INCHES	N/A
ANG.	0°-0.5°
TITLE	JACK-ROHS COMPLAINT
DR.	JY
DATE	05/06/07
REF.	P/N: RH1018XXXXNL
PRE-	JK
DRAWING NO.	3193
SIZE	F
SHEET	1 OF 3
REV.	H



Research Develop Innovate

RDI, Inc. 333 North Bedford Road, Suite 135, Mount Kisco, NY 10549

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1. MATERIAL CHART

2	COVER	2	PA	BLACK	
4	BARREL	2	BRASS(H63)	Au	±0.4
6	PIN2	2	BRASS(H62)	CuSn	±0.4
5	PIN1	2	BRASS(H62)	CuSn	±0.4
1	INSERTS	4	PBT	SEE COLOR CHART PAGE #2	
3	HOUSING	1	PBT	BLACK	
NO.	NAME	QTY.	MATERIAL	FINISHED	REMARK

2. RATED LOAD

- 2.1 RATED VOLTAGE: 12V(DC)
- 2.2 RATED CURRENT: 1A

3. ELECTRICAL PROPERTIES

No.	ITEM	TEST CONDITIONS	SPECIFICATION
3.1	CONTACT RESISTANCE	THE MEASUREMENT SHALL BE MADE AT BETWEEN ANY OF TWO STRIPS, WHICH CONTACT EACH OTHER AND BETWEEN THE CONTACTED PARTS OF PLUG AND SOCKET	≤ 30mOhm
3.2	INSULATION RESISTANCE	500V DC SHALL BE APPLIED BETWEEN THE CONDUCTORS, WHICH INSULATE FROM EACH OTHER FOR ONE MINUTE, WHEN THE PLUG IS INSERTED INTO SOCKET, AND WHEN THE PLUG IS INSERTED INTO SOCKET, AND WHEN THE PLUG ISN'T INSERTED INTO SOCKET	≥ 100MOhm
3.3	WITHSTAND VOLTAGE (LEAK CURRENT ≤ 1mA)	AC500V, 50Hz SHALL BE APPLIED BETWEEN THE CONDUCTORS, WHICH INSULATE FROM EACH OTHER FOR 5 MINUTE, WHEN THE PLUG IS INSERTED INTO SOCKET, AND WHEN THE PLUG IS INSERTED INTO SOCKET, AND WHEN THE PLUG ISN'T INSERTED INTO SOCKET	THERE SHALL NOT BE BREAKDOWN OR ARCING

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4. ORDER LABEL:
- P/N: RH1018 XXX G NL
- (1) SERIES No.
- (2) COLOR GUIDE
- (3) GOLD PLATING:G=GOLD BARREL
- (4) RoHS COMPLIANT "NL"

5. NOTES:
- (1) PLASTIC COMPONENTS: 94V-0
- (2) WAVE SOLDERING TEMP.: 260± 5°C FOR 5± 1 SECOND

6. COLOR GUIDE:

MODEL No.	010	020	030	040	050	060	070	080
COLOR	A	W	B	B	R	Y	D	Y
B=BLACK	B	W	B	B	R	B	D	B
Y=YELLOW	C	R	R	W	W	D	R	Y
O=ORANGE	D	R	B	R	W	D	W	R
G=GREEN								
V=WHITE								
R=RED								
U=BLUE								
MODEL No.	090	100	110	120	130	140	150	160
COLOR	A	W	Y	R	Y	Y	Y	W
P=BLACK	B	Y	Y	W	Y	G	B	R
Y=YELLOW	C	R	R	Y	Y	U	R	W
O=ORANGE	D	Y	R	W	Y	R	B	R
G=GREEN								
V=WHITE								
R=RED								
U=BLUE								

PROJECTION



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SCALE	N/A	TITLE	JACK-ROHS COMPLIANT		
TOLERANCE	DR: JY	DATE	05/06/07	REF: P/N: RH1018XXXXNL	SHEET 2 OF 3
EXCEPT AS NOTED	OK: Bill	PRE-DATE	JK	DRAWING NO: 3193	REV. H
DEC. INCHES	N/A	SIZE	F		
MILLIMETERS	N/A				
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7. MECHANICAL PROPERTIES

No.	ITEM	TEST CONDITIONS	SPECIFICATION
7.1	INSERTION AND EXTRACTION FORCE	THE INSERTION AND EXTRACTION FORCE SHALL BE MEASURED WITH THE GAUGE PLUG	5-30N
7.2	TERMINAL STRENGTH	A STATIC LOAD OF 0.5kg SHALL BE APPLIED TO THE TERMINAL FOR ONE MINUTE IN ANY DIRECTIONS	NO BREAKDOWN, LOOSING AND DEFORMING, ETC. MECHANICAL AND ELECTRICAL PROPERTIES SHALL BE AVAILABLE
7.3	MECHANICAL LIFE	INSERTED AND EXTRACTED FOR 5,000 CYCLES AT THE SPEED OF 20-30 CYCLES PER MINUTE BY SPECIAL LIFE TEST DEVICE OR MANUAL OPERATION ACCORDING TO GB5095.5-86 TEST 9a	CONTACT RESISTANCE $\leq 60\text{m}\Omega$ WITHSTANDING VOLTAGE AND INSULATION SHALL BE AVAILABLE

8. MECHANICAL PROPERTIES

No.	ITEM	TEST CONDITIONS	SPECIFICATION
8.1	COLD HEAT WITHSTANDING		DIMENSIONS SHALL MEET THE REQUIREMENT, MECHANICAL AND ELECTRICAL PROPERTIES SHALL BE AVAILABLE
8.2	HUMIDITY WITHSTANDING	RELATIVE HUMIDITY: $95\pm 3\%$ TEST TEMPERATURE: $40^\circ\text{C}$ LAST FOR 2 DAYS, THE SAMPLE SHALL BE TAKEN OUT FOR ELECTRICAL PROPERTY MEASUREMENT WITHIN 5 MINUTES, MEASURE AFTER ONE HOUR RECOVERY IN STANDARD ATMOSPHERIC CONDITIONS	DIMENSIONS SHALL MEET THE REQUIREMENT, MECHANICAL AND ELECTRICAL PROPERTIES SHALL BE AVAILABLE

No.	ITEM	TEST CONDITIONS	SPECIFICATION
8.3	SALT SPRAY TEST	ACCORDING TO GB2423.17 TEST KA TEMPERATURE: $35\pm 2^\circ\text{C}$ THE DENSITY OF NaCl SOLUTION IS $5\pm 0.1\%$ (WEIGHT) SPRAY SALT FOG FOR 48 HOURS CONTINUOUSLY	THERE SHALL NOT BE SERIOUS CORROSION ON THE SURFACE OF METAL
8.4	VIBRATION WITHSTANDING	FREQUENCY: 10-55Hz DISPLACEMENT AMPLITUDE: 0.35mm ACCELERATION AMPLITUDE: 50.0m/s CYCLE INDEX OF SWEEP FREQUENCY: 30 CYCLES	MECHANICAL AND ELECTRICAL PROPERTIES SHALL BE AVAILABLE
8.5	VIBRATION WITHSTANDING	SAMPLE DROPS FROM THE SPECIFIED HEIGHT(50mm, 500mm, 750mm, 1000mm) IN 3 INTERSECTION AXIS, ONE SHOCK EACH DIRECTION	MECHANICAL AND ELECTRICAL PROPERTIES SHALL BE AVAILABLE

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