



LEOCO Engineering and Manufacturing standards

HI-REL IC SOCKET OPEN FRAME

*** 8320 Series ***

Material :

* Insulator : UL 94V-0 P.B.T

* Inner contact : Beryllium Copper

* Outer sleeve : Brass

Plating :

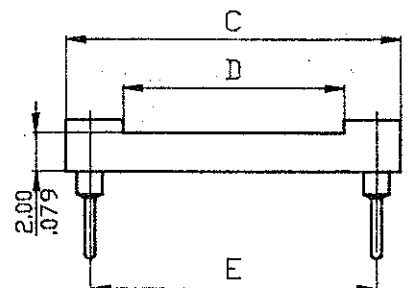
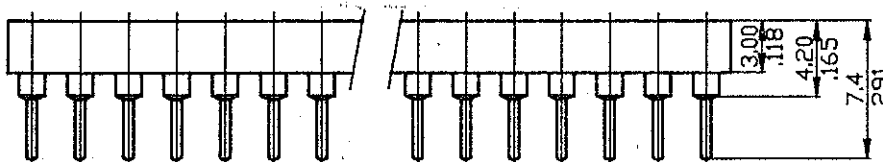
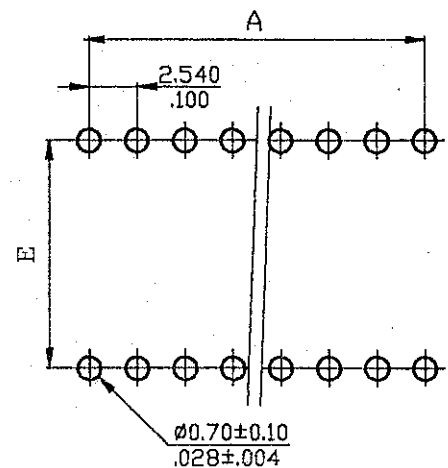
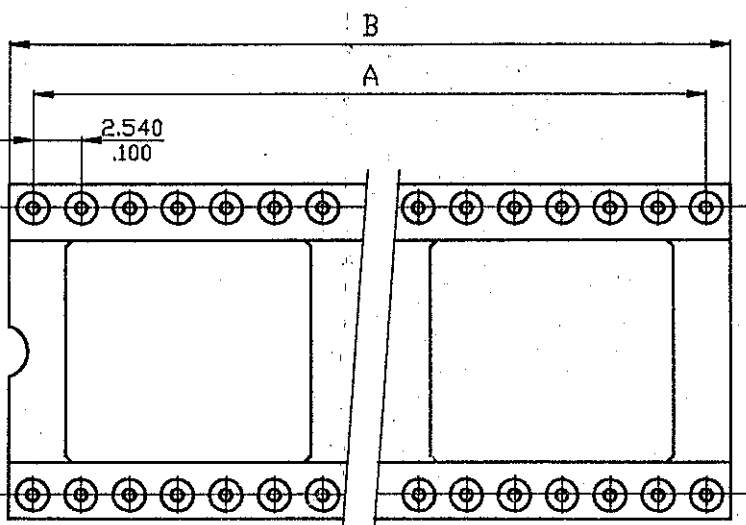
* Inner contact : 10 u" gold over nickel

* Outer sleeve : Tin

Unless otherwise specified tolerance :

.000 ±.10 , .00 ±.20 , .0 ±.30

UNIT : $\frac{\text{mm}}{\text{inch}}$



Circuits	A	B	C	D	E
6	5.080(.200)	7.6(.299)	10.14(.399)	4.04(.159)	7.620(.300)
8	7.620(.300)	10.2(.402)	10.14(.399)	4.04(.159)	7.620(.300)
14	15.240(.600)	17.8(.701)	10.14(.399)	4.04(.159)	7.620(.300)
16	17.780(.700)	20.3(.799)	10.14(.399)	4.04(.159)	7.620(.300)
18	20.320(.800)	22.8(.898)	10.14(.399)	4.04(.159)	7.620(.300)
20	22.860(.900)	25.4(1.000)	10.14(.399)	4.04(.159)	7.620(.300)
24	27.940(1.100)	30.5(1.201)	17.72(.698)	11.72(.461)	15.240(.600)
28	33.020(1.300)	35.5(1.398)	17.72(.698)	11.72(.461)	15.240(.600)
32	38.100(1.500)	40.6(1.598)	17.72(.698)	11.72(.461)	15.240(.600)
40	48.260(1.900)	50.8(2.000)	17.72(.698)	11.72(.461)	15.240(.600)
48	58.420(2.300)	60.9(2.398)	17.72(.698)	11.72(.461)	15.240(.600)

LEOCO CORPORATION

8320-***X000

DRWG/REVISIONS

DATE

SIGN

K. H. H.

LEOCO CORPORATION	PRODUCT SPECIFICATION	NO.: S-90-8320-0
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* 8320 SERIES ROUND PIN IC SOCKET *

This specification describes the characteristics, test method and particular sanctions applicable to LEOCO 8320 series ROUND PIN IC socket.

All requirements of this specifications are applicable for LEOCO 6,8,14, 16,18,20,24,28,32,40 contacts dual in line socket.

1. ELECTRICAL PERFORMANCE :

	ITEM	TEST CONDITION	REQUIREMENT
1.1	Rated vlotage and current		AC 100 V 2 A DC 100 V 2 A
1.2	Contact resistance	Dry circuit of DC 50mV 50mA max.	20 miliohms max.
1.3	Dielectric strength	When applied AC1000V 1 minute between adjacent terminal	No change
1.4	Insulation resistance	When applied DC500V between adjacent terminal or ground	5000 Megaohms min.

2. MECHANICAL PERFORMANCE :

	ITEM	TEST CONDITION	REQUIREMENT
2.1	Insertion force	Mating speed 25 +/- 3 mm per minute (0.46mm round pin)	120gram per contact (MAX)
2.2	Extraction force	Mating speed 25 +/- 3 mm per minute (0.46mm round pin)	30gram per contact (MIN)
2.3	Pin retention force	Retention speed 25 +/- 3 mm per minute	0.5 Kgs min.

3. ENVIRONMENTAL PERFORMANCE :

	ITEM	TEST CONDITION	REQUIREMENT
3.1	Temperature rise	Then carried the rated current	30 Deg. C max.
3.2	Vibration	1.5mm 10-55-10HZ/minute each 2 hours for X,Y and Z direc- tions	Discontinuity: 1 micro second max. Appearance:no damage
3.3	Shock	50G, each 3 times for X,Y & Z Directions Appling 0-1 A-DC	Discontinuity: 1 micro second Max. Appearance:no damage

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	ITEM	TEST CONDITION	REQUIREMENT
3.4	Solderability	Soldering time: 5+/-0.5 second. Soldering Pot: 230+/-5 Deg C	Minimum: 75% of immersed area.
3.5	Resistance to soldering heat	Solder time: 5+/-0.5 second Solder Pot: 260+/-5 Deg. C	No damage
3.6	Heat aging	105 +/- 2 Deg. C., 500 hours	No damage
3.7	Humidity	40+/-2 Deg. C, 90-95% RH, 96 HRS Measurement must be taken within 30 Min. after tested	Contact resistance: Less than twice of initial.
			Dielectric strength: To pass para 1-3
			Appearance: No damage
3.8	Temperature cycling	One cycle consists of: (1) -40+/-3 Deg. C 30 min (2) Room Temp. 10-15 min. (3) 105+/-2 Deg. C 30 Min. (4) Room Temp. 10-15 min.	Appearance: No damage
			Contact resistance: Less than twice of initial.
3.9	Salt Spray	Temp: 35+/-3 Deg. C Solution: 5+/-1% Spray Time: 48+/-4 hours. Measurement must be taken after water rinse.	Appearance: No damage
			Contact resistance: Less than twice of initial
3.10	SO2 Gas	24 hours in sulfur dioxide gas (SO2) 50+/-5PPM at 40+/-2deg.C	Contact resistance: Less than twice of initial.
3.11	NH4 GAS	40 Minutes in saturated ammonia gas by 28% liquid ammonia at 25+/-2 DEG. C	Apparance: No damage
			Contact resistance: Less than twice of initial.

4. AMBIENT TEMPERATURE RANGE : -40 TO +105 degree C.

5. MATERIAL :

INSULATOR - Glass filled thermoplastic, UL94V-0, color black.
INNER 4-FINGER CONTACT - Beryllium copper.
OUTER SLEEVE CONTACT - Copper.

6). CONSTRUCTION AND DIMENTIONAL : See attached drawings.

DATE	REVISIONS	DRWN BY : <i>Alice</i>
		SPEC BY :
		CHKD BY : <i>Regan</i>
		APPR BY :