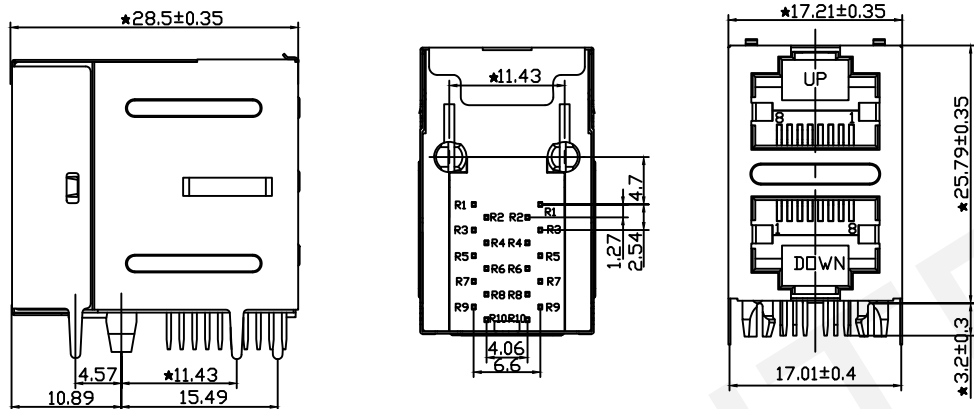


Dimensions: [mm]



Specification:

1:TOLERANCES UNLESS OTHERWISE SPECIFIED:

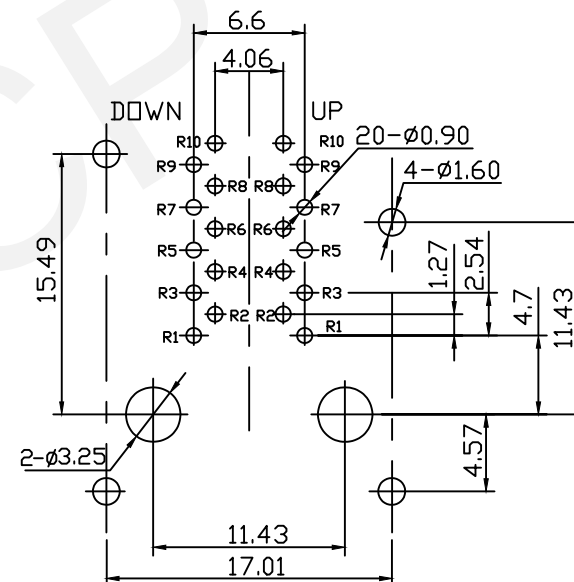
0-10±0.15、10-20±0.2、20~40±0.25、

40~70±0.3、≥70±0.4

2:JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS,PART 68 SUBPART F.

3. Shell Printing: RHTECP RE-C-RJ451012C12

PCB BOARD LAYOUT



RHTECP® NINGBO RHT ELECTRONIC CO.,LTD

UNITS:mm

SHEET SIZE: A4

SCALE:---

DRWN BY PAN

RJ45+TRANSFORMER 10/100BASE,6U",RoHS

0~3

3~18

18~50

50~120

CHK'D BY FENG

THIRD ANGLE PROJECTION

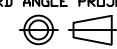
±0.12

±0.15

±0.3

±0.5

APPR BY ZHAN



RE-C-RJ451012C12

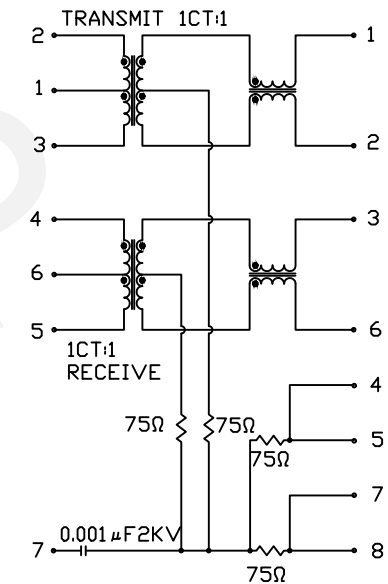
Technical Characteristics

Parameter	Value
Application	Ethernet Equipment Complex,Switches, Routers,Firewalls,Servers and Hub
Magnetics Test	Internal magnetics are 100% electrically tested for functionality per IEEE802.3 requirement
Jack Cavity Standard	Complies with FCC Part 68 Subpart F
EMI Performance	High performance for maximum EMI suppression
RoHS Peak Wave Solder Temperature	265±3°C
□CL(Min.)	350uH @8mA bias current
Insertion Force	8 Contacts--900g,10 Contacts--1050g
Retention Strength	7.7Kgs Between Jack and Plug
Durability	750 Mating Cycles Min
Storage Condition	-40°C~85°C,Relative Humidity<70%
Operating Temperature	-40°C to 85°C

Technical Characteristics

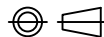
Item	Specification
Connector Type	RJ45 With internal Magnetics Connector
Housing	Glass filled PA66(UL94V-0) Glass filled PA46/PA6T/PA9T/LCP(265°C)(UL94V-0) Glass filled PBT/PA/ABS/PC(UL94V-0)
Spring Wire	0.25-0.35mm Thickness Phosphor Bronze Alloy, Selective Gold Plating over Nickel(50-80μ") over Tin(60-120μ")
Gold Plating	3μ",6μ",15μ",30μ",50μ"
Shielding	0.2-0.24mm Thickness Copper Alloy with Nickel(50-100μ") Plated

Circuit Diagram



ELECTRICAL SPECIFICATIONS AT 25°C

Insertion Loss dB max	Return Loss dB min		Crosstalk (dB TYP)	Common Mode Rejection (dB TP)	Hipot(wrms)
125MHz	1-30MHz	30-80MHz	1-100MHz	1-100MHz	
-1.2	-18	-18+20log(f/30MHz)	-30	-30	1500/0.5mA OR 22500C/0.1mA

	1	2	3	4	5	6	7	8	9	
A	 Important Notice The following terms and conditions apply to all products supplied and marketed by NINGBO RHT ELECTRONIC CO., LTD.								A	
B	1. General Statement RHT connectors are designed and manufactured in accordance with international quality management standards and internal control procedures to ensure stable electrical and mechanical performance under specified operating conditions.				4. Compliance and Quality Assurance All products comply with applicable RoHS environmental directives. Quality inspections are performed according to RHT internal standards. Upon request, relevant inspection reports may be provided.					B
C	2. Scope of Application Products are intended for general electronic and industrial applications. For safety-critical systems including but not limited to medical devices, automotive safety systems, aerospace, railway control, nuclear facilities, or other life-support systems, prior written approval from RHT is required.				5. Soldering and Assembly Soldering must comply with recommended RHT solder profiles. Use outside recommended processing conditions may affect product reliability and void warranty coverage.					C
D	3. Customer Design Responsibility The responsibility for product selection, validation, and suitability in a specific customer application remains solely with the customer. Customers must perform adequate verification testing, reliability evaluation, and risk assessment before mass production release.				6. Storage and Handling Products should be stored in original sealed packaging under dry conditions. Recommended shelf life is 12 months from production date. Mechanical stress, improper handling, or contamination may affect performance.					D
E					7. Cleaning and Chemical Exposure Cleaning agents must be compatible with connector housing and plating materials. Immersion cleaning is not recommended unless specifically validated by the customer.					E
F										F
G	 NINGBO RHT ELECTRONIC CO.,LTD			UNITS:mm	SHEET SIZE: A4	SCALE:---	DRWN BY PAN	RJ45+TRANSFORMER 10/100BASE,6U",RoHS		THIRD ANGLE PROJECTION  RE-C-RJ451012C12
				0~3	3~18	18~50	50~120	CHK'D BY FENG		
				±0.12	±0.15	±0.3	±0.5	APPR BY ZHAN		
	1	2	3	4	5	6	7	8	9	