



ISO9001 ISO14001 IATF16949

CHILISIN ELECTRONICS CORP. 奇

RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

Customer :	ELTECH		
Customer P/N:	_____		
Drawing No :	_____		
Quantity :	Pcs.	Date :	2019/10/28
Chilisin P/N :	BXRT00DIS016M11SCF		

SPECIFICATION ACCEPTED BY:	
COMPONENT ENGINEER	_____
ELECTRICAL ENGINEER	_____
MECHANICAL ENGINEER	_____
APPROVED	_____
REJECTED	_____

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Drawn by Jamie. Chuang	Checked by Jet. Liang	Approved by James.Cheng
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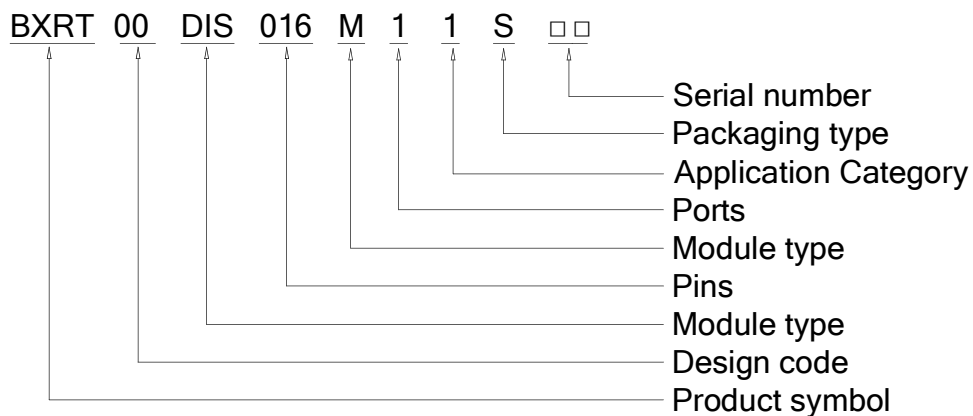
Networking Communication Components

BXRT Series

Feature

- Compliant and peak reflow temperature rating 245°C .
- Meets IEEE802.3u specification.
- Comply with ROHS & Halogen Free requirements.
- Excellent common mode noise suppression.
- Packaging specification is reel.
(BXRT00DIS016M11SCF : Reel)

Part Number Code

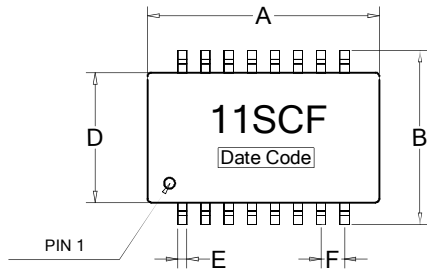


Transformer

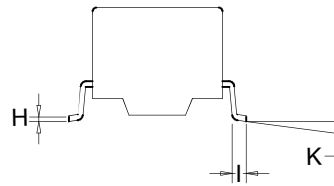
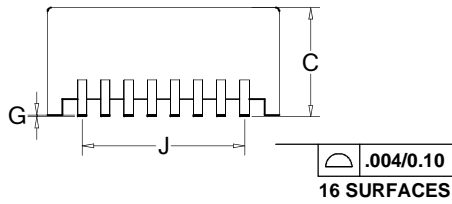
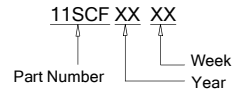
Part number : BXRT00DIS016M11SCF

Part name : 10/100 Base-T Transformer Single Port

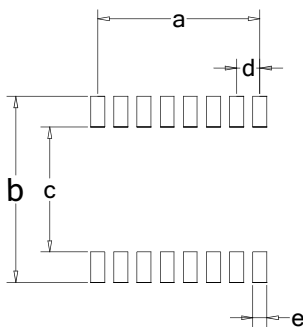
Mechanical Dimension



UNIT	mm	inch
A	12.80 ±0.25	0.5039 ±0.010
B	9.30 ±0.25	0.3661 ±0.010
C	5.65 ±0.25	0.2224 ±0.010
D	6.90 ±0.25	0.2717 ±0.010
E	0.46 ±0.13	0.0181 ±0.002
F	1.27 ±0.25	0.0500 ±0.010
G	0.25 ±0.13	0.0098 ±0.002
H	0.30 ±0.13	0.0118 ±0.002
I	0.70 ±0.13	0.0276 ±0.002
J	8.89 ±0.25	0.3500 ±0.010
K	0°~ 8°	



Suggested Land Pattern



UNIT	mm	inch
a	8.89	0.3500
b	10.20	0.4016
c	6.86	0.2701
d	1.27	0.0500
e	0.76	0.0299

Drawn	Jamie.Chuang	Designed	Jamie.Chuang	Approved	James.Cheng
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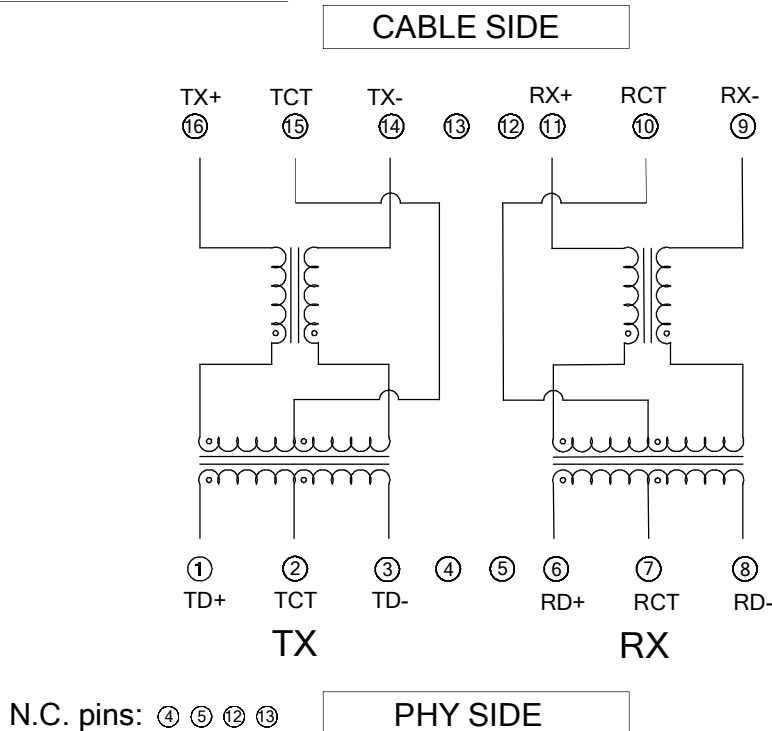
Temperature

Operating Temperature : 0°C to +70°C.

Storage Temperature : -25°C to +105°C

Schematics

BXRT00DIS016M11SCF



Electrical Specification @25 °C, Humidity 65% RH

Inductance @ Phy side(OCL)
100KHz, 0.1V, 8mA DC Bias
350uH MIN

Part Number	Turns Ratio		Insertion Loss	Return Loss		
	100KHz		dB MAX	dB MIN		
	TX	RX		1MHz-100MHz	30MHz	60MHz
BXRT00DIS016M11SCF	1:1±3%	1:1±3%	-1.1	-20	-14	-11.5

Part Number	DMCR			Crosstalk			Hipot
	dB MIN			dB MIN			Vrms, Sec
	30MHz	50MHz	100MHz	30MHz	60MHz	100MHz	Pri To Sec @60Hz,1mA
BXRT00DIS016M11SCF	-42	-37	-33	-45	-40	-35	1500, 60

Reliability Test Method

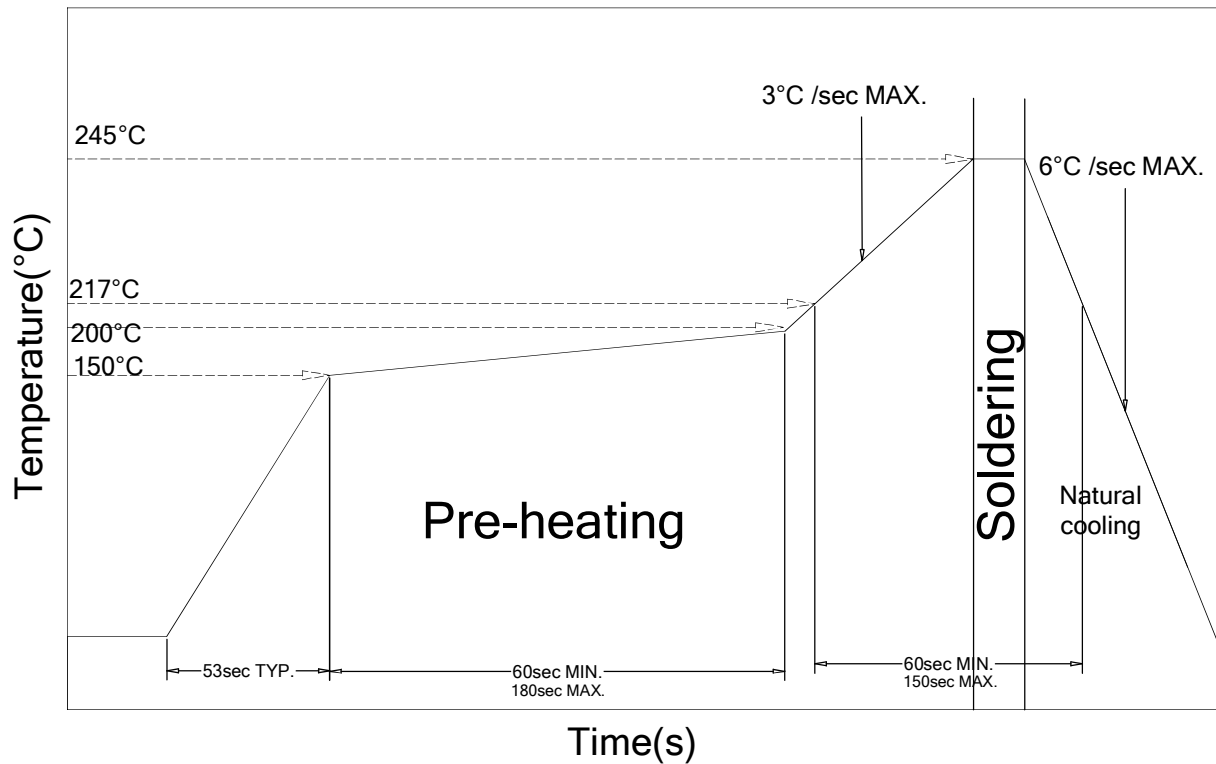
Mechanical

Item	Test Item	Test Conditions	Criteria
1	SOLDER-ABILITY	*.Refer to J-STD-002 1. Solder Temperature : 245±5°C 2. Flux : Rosin 3. Dip Time : 3±1 seconds 4. More than 90% of terminal electrode shall be covered with fresh solder.	1.No electrical problem found. 2.No mechanical damage found.
2	RESISTANCE TO SOLDER HEAT	*.Refer to J-STD-002 1. Solder Temperature : 260±5°C 2. Flux : Rosin 3. Dip Time : 10±1 seconds 4. More than 75% of terminal electrode shall be covered with fresh solder.	1.No electrical problem found. 2.No mechanical damage found.
3	SUBSTRATE BENDING	1. The sample shall be soldered onto to the printed circuit board. Apply pressure gradually in the middle printed circuit board at a rate of about 0.5mm/s until bent depth reaches 2mm and hold for 30 sec. 2. There shall be no mechanical damage or electrical damage.	1.No electrical problem found. 2.No mechanical damage found.
4	VIBRATION	1. 2HRS EACH IN X,Y,AND Z DIRECTIONS TOTAL : 6HRS	1.No electrical problem found. 2.No mechanical damage found.
5	TERMINAL STRENGTH	1. Force of 1.8kg for 60 seconds. 2. No apparent damage.	1.No electrical problem found. 2.No mechanical damage found.

Environment Characteristics

Item	Test Item	Test Conditions	Criteria
1	THERMAL SHOCK	*.Refer to MIL-STD-883 1011.09 COND.A 1. 1000 cycle (0 to +70°C)	1.No electrical problem found. 2.No mechanical damage found.
2	HUMIDITY RESISTANCE	*.Refer to MIL-STD-202 Method 103 1. 1000 hours. 85°C. 85% RH	1.No electrical problem found. 2.No mechanical damage found.
3	HIGH TEMPERATURE RESISTANCE	*.Refer to MIL-STD-202 Method 108 1. 1000 hours. 70°C.	1.No electrical problem found. 2.No mechanical damage found.
4	LOW TEMPERATURE RESISTANCE	*.Refer to MIL-STD-810F-502.4 1. 1000 hours. 0°C.	1.No electrical problem found. 2.No mechanical damage found.

Reflow Soldering

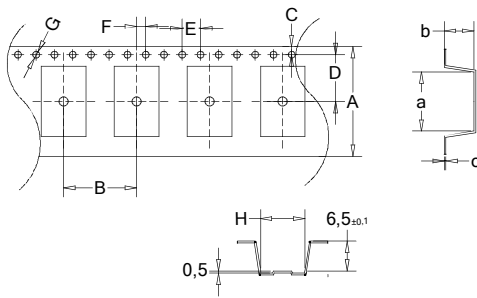


- IR Reflow soldering :
Preheat at 3°C per second to 217°C and using lead free solder ,
IR at 245°C for 30seconds Max.
- Rework flow:
Component must withstand two IR reflow cycles with a cool down
between cycles
- Temperature is measured at the terminal portion of product
(Using thermocoupler for measurement).
- This profile is reference data we recommend. Please check in your
actual process.
- For reliable soldering, the thickness of solder paste screen should
be over the terminal co-planality.
- The cutted end of terminal has no plating
(out of subject of solder ability).
- JEDEC Moisture: Level 1.

■ Packaging Styles

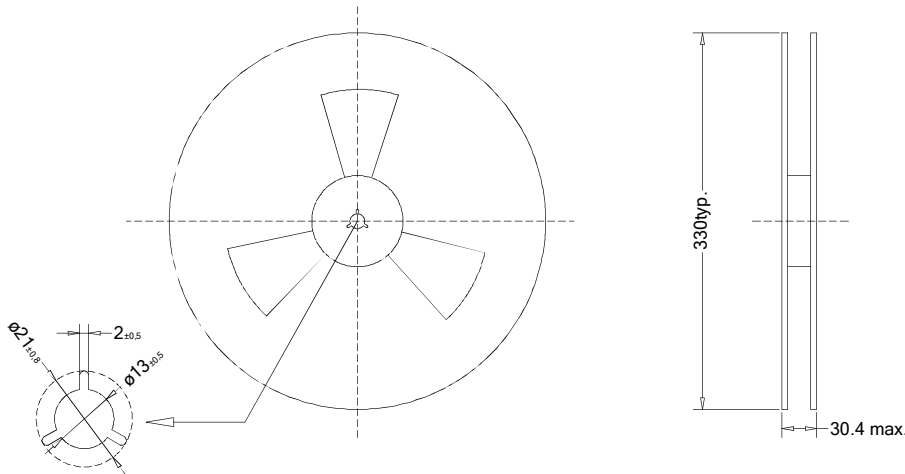
650 pieces

■ Tape Dimensions



UNIT	mm	UNIT	mm
A	24.00± 0.30	F	2.00± 0.10
B	16.00± 0.10	G	1.50± 0.10
C	1.75± 0.10	H	9.70± 0.10
D	11.50± 0.10	a	13.00± 0.10
E	4.00± 0.10	b	6.50± 0.10
10*E	40.00± 0.20	c	0.40± 0.05

■ Reel Dimensions



Dimensions in mm

■ Recommended Condition For Long Term Store

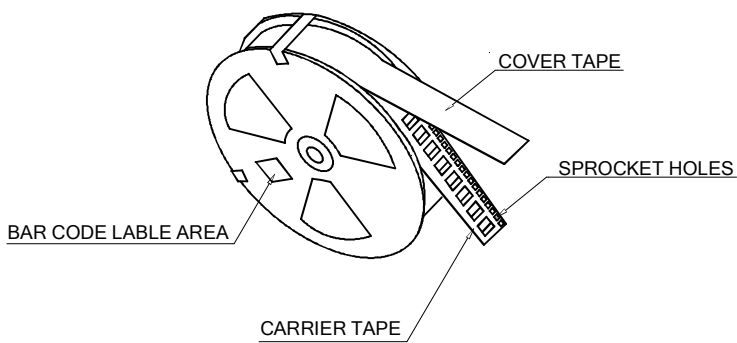
When it stores for a long term, please avoid place of high temperature and high humidity.

Recommend that it uses after the delivery within 1 year.

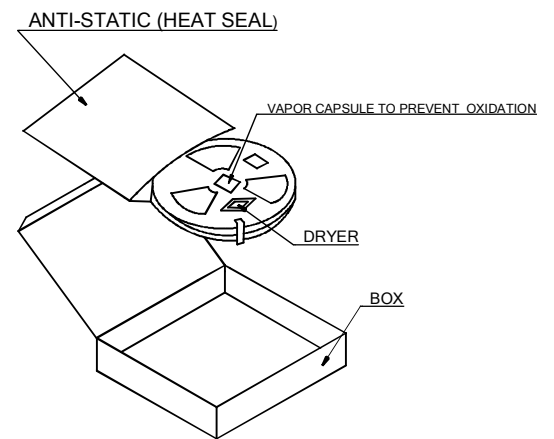
- Temperature range: +5 to +30°C.
- Humidity: 60(%)RH max..
- All dimensions meet EIA-481-C requirement.

Package Specification

650 pieces / reel



1 reel / BOX



2 BOX / CARTON
1300 pieces / CARTON

