

## LC MODULES

### TLA-3M103LF(-T) ISO8802.3(IEEE802.3) 10BASE-T

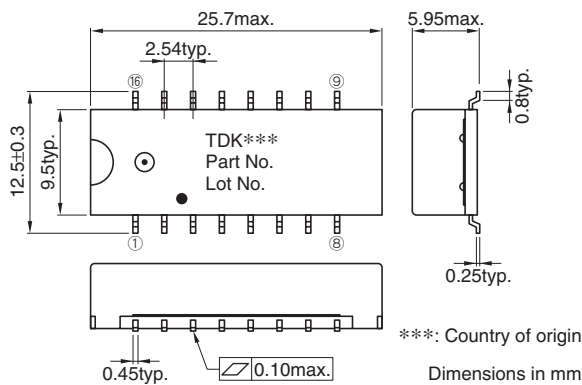
#### FEATURES

- Lead free product.
- Can be mounted with lead-free solder (260°C max.).
- 16-pin SMD package (2.54mm=100mil pin pitch).
- Pulse transformer, common-mode choke and low pass filter are integrated into 16-pin SMD package.
- Using the high-quality and wide-band ferrite cores for LAN.
- Packaging specification is taping and bulk(TLA-3M103LF-T: Tape and reel, TLA-3M103LF: Bulk).

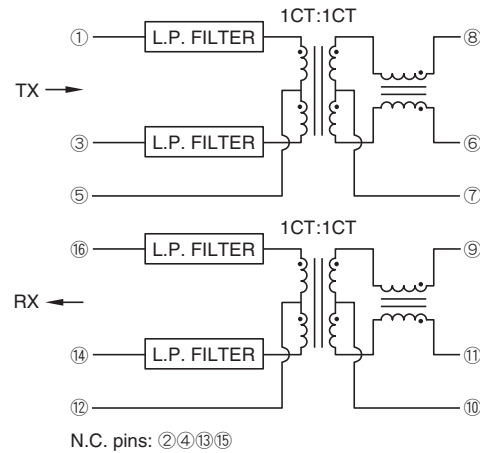
#### GENERAL SPECIFICATIONS

Low pass filter		2
Pulse transformer		2
Common-mode choke		2
Port		1
Temperature ranges	Operating	0 to +70°C
	Storage	-40 to +85°C
Withstanding voltage		Erms:1500V[60s]

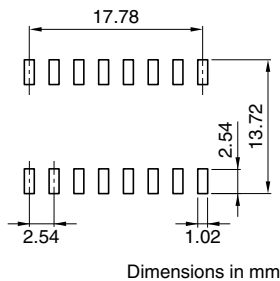
#### SHAPES AND DIMENSIONS



#### CIRCUIT DIAGRAM



#### RECOMMENDED PC BOARD PATTERN



#### ELECTRICAL CHARACTERISTICS

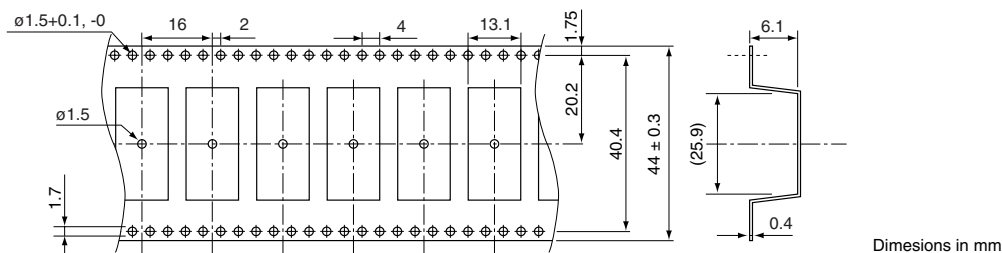
Part No.	Insertion loss (dB)max.[5 to 10MHz]	Attenuation (dB)min.[30 to 100MHz]	Impedance (Ω)typ.[5 to 10MHz]	C.M.R.R. (dB)min.[1 to 100MHz]
	①③-⑧⑥ ⑨⑪-⑯⑭	①③-⑧⑥ ⑨⑪-⑯⑭	①-③, ⑧-⑥ ⑯⑭-⑭, ⑨-⑪	①③-⑧⑥ ⑯⑭-⑨⑪
TLA-3M103LF(-T)	1	25	100, 100	25
	1	25	100, 100	25

- Ta=25°C

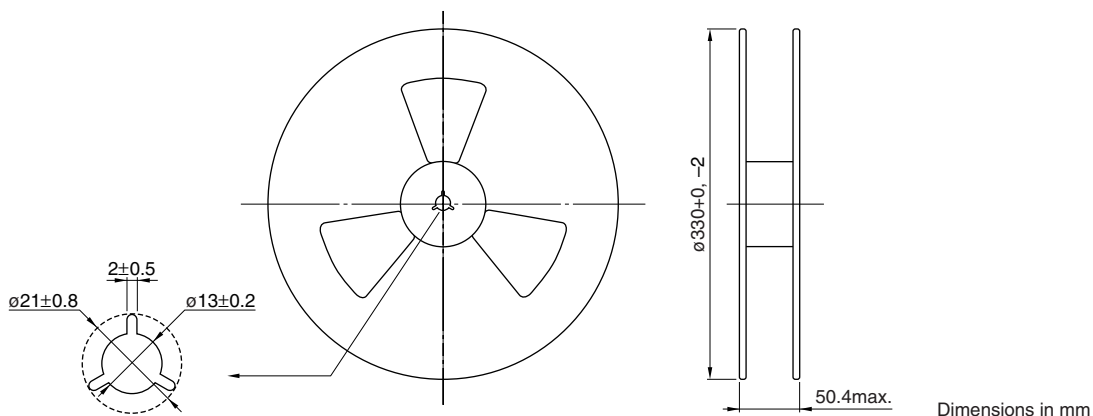
### PACKAGING STYLES

Quantity : 600pieces/reel

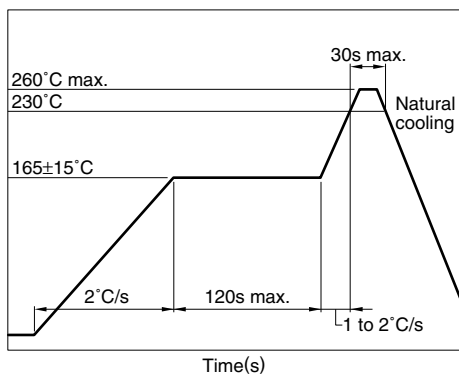
### TAPE DIMENSIONS



### REEL DIMENSIONS



### RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



- 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).

### 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 1year.

Temperature range: +5 to +30°C

Humidity: 60(%)RH max.