

APPROVAL SHEET

RGTCM Series – 0806(3025)- RoHS Compliance

THIN FILM COMMON MODE FILTER

Halogens Free Product

P/N: RGTCM0806900H0T

*Contents in this sheet are subject to change without prior notice.



FEATURES

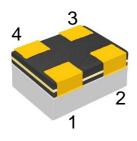
- 1. Miniature footprint: 0.8 X 0.6 X 0.5 mm³.
- 2. Thin Film Technology.
- 3. Reflow Solderable SMD Devices.
- 4. Wide Pass Band(Cut- Off Frequency: -3dB: 4 GHz Typical).
- 5. High attenuation for common mode noise.
- 6. This product contains no lead and supports lead-free Ni/Au soldering

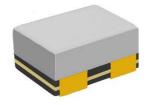
APPLICATIONS

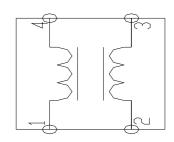
- 1. For Super Speed Signal Line Application
- 2. LVDS/IEEE1394/HDMI/DVI/MIPI/USB3.0

CONSTRUCTION

EQUIVALENT CIRCUIT







DIMENSIONS

Figure	Symbol	Dimension (mm)
	L	0.88 ± 0.05
	W	0.68 ± 0.05
	Т	0.50 ± 0.05
	А	0.15 ± 0.05
	В	0.20 ± 0.05
	С	0.27 ± 0.10
	D	0.62 ± 0.05
	Е	0.50 ± 0.10
	F	0.82 ± 0.05

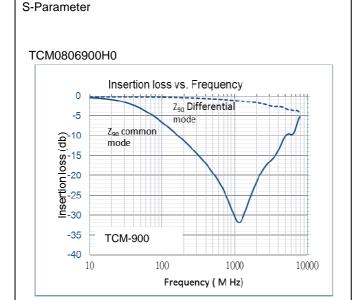


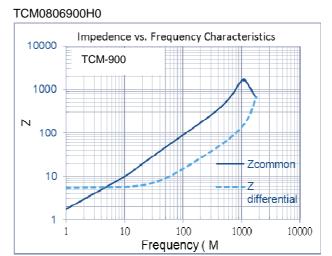
ELECTRICAL CHARACTERISTICS

Туре	Common Mode Impedance (Ω)	Max. DC Resistance (Ω)	Rated Current (mA)	Rated Voltage Ed(V)	Cut off Frequency (GHz) typ.	Insulation Resistance (M Ω) min.
RGTCM0806900H0T	90±25%	2.8±30%	100	10	4G	10

Operating temperature range : -40° C to $+85^{\circ}$ C

Typical electrical performance





Impedance VS Frequency Characteristics

SOLDER LAND PATTERN

Figure	Symbol	Dimension(mm)
В	А	0.90 ± 0.10
C A	В	0.50 ± 0.10
	С	0.30 ± 0.10
<mark>◆□</mark>	D	0.30± 0.10



RELIABILITY TEST



• •		
Temperature cycle JIS C 0025	 30±3 minutes at -40°C±3°C, 10~15 minutes at room temperature, 30±3 minutes at +85°C±3°C, 10~15 minutes at room temperature, Total 100 continuous cycles Measurement to be made after keeping at room temperature for 24±2 hrs 	No mechanical damage. Samples shall satisfy electrical specification after test, meet Table 1.
High temperature JIS C 0021	*Temperature: 85°C±2°C *Test duration: 1000+24/-0 hours Measurement to be made after keeping at room temperature for 24±2 hrs	No mechanical damage. Samples shall satisfy electrical specification after test, meet Table 1.
Humidity (steady conditions) JIS C 0022	*Humidity: 90% to 95% R.H. *Temperature: 40±2°C *Time: 1000+24/-0 hrs. Measurement to be made after keeping at room temperature for 24±2 hrs % 500hrs measuring the first data then 1000hrs data	No mechanical damage. Samples shall satisfy electrical specification after test, meet Table 1.
Low temperature JIS C 0020	*Temperature : -40°C±2°C *Test duration : 1000+24/-0 hours Measurement to be made after keeping at room temperature for 24±2 hrs	No mechanical damage. Samples shall satisfy electrical specification after test, meet Table 1.

SOLDERING CONDITION

Typical examples of soldering processes that provide reliable joints without any damage are given in Fig 2,

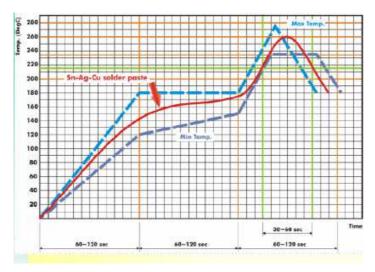


Fig 2. Infrared soldering profile

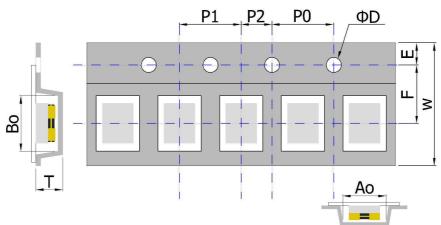
ORDERING CODE

RG	TCM	0806	900	Н	0	Т
Walsin	Product code	Dimension	СМ	Application	Specification	Packing
RG device	TCM:	code	Impedance	Н:	Code from 0~9	T : Reeled
	Thin Film	0806 =	900 : 90 ohm	HDMI/DVI/LVDS	dependent on	
	Common	Length 08		/SATA/PCI-/D-	different electrical	
	Mode Filter	Width 06,		Port	specification	
		,				

Minimum Ordering Quantity: 10000 pcs per reel.

PACKAGING

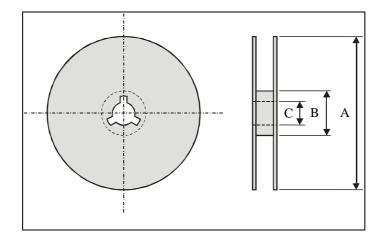
Paper Tape specifications (unit :mm)



Index	A ₀	B ₀	ΦD	Т	W
Dimension(mm)	0.78±0.03	1.04±0.03	1.55±0.05	0.6±0.03	8.0±0.10
Index	Е	F	P ₀	P ₁	P_2
Dimension(mm)	1.75±0.05	3.5±0.05	4.0±0.10	4.0±0.10	2.0±0.05



Reel dimensions



Index	Α	В	С	
Dimension (mm)	Ф178.0	Ф60.0	Ф13.0	

Taping Quantity:10000 pieces per 7" reel

CAUTION OF HANDLING

Limitation of Applications

Please contact us before using our products for the applications listed below which require especially high reliability for the prevention of defects, which might directly cause damage to the third party's life, body or property.

- (1) Aircraft equipment
- (2) Aerospace equipment
- (3) Undersea equipment
- (4) Medical equipment
- (5) Disaster prevention / crime prevention equipment
- (6) Traffic signal equipment
- (7) Transportation equipment (vehicles, trains, ships, etc.)
- (8) Applications of similar complexity and /or reliability requirements to the applications listed in the above.

Storage condition

Products should be storage in the warehouse on the following conditions.

Temperature : -10 to +40°C

Humidity : 30 to 70% relative humidity

- Don't keep products in corrosive gases such as sulfur. Chlorine gas or acid or it may cause oxidization of electrode, resulting in poor solderability.
- Products should be storage on the palette for the prevention of the influence from humidity, dust and son on.
- Products should be storage in the warehouse without heat shock, vibration, direct sunlight and so on.
- Products should be storage under the airtight packaged condition.

单击下面可查看定价,库存,交付和生命周期等信息

>>Walsin Technology(华新科技)