

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HSB0603T SERIES

1. FEATURES:

1. Low profile: 3.3mm(Max)
2. Common mode impedance of 112 ~ 380Ω at 100MHz, 176 ~ 750Ω at 400MHZ.
3. Operating temperature Range: -25°C ~ +85°C
4. Suitable for reflow soldering.

2. APPLICATIONS:

HSB0603T Series is a dual wound common mode choke w/c is ideal for NOISE ATTENUATION in a twisted pair cable interfaces as well as IEEE 1394 & USB2.0 applications. An excellent impedance balance between two sets of twisted pairs is achieved by winding across a single core.

One HSB0603T common mode choke coil per interface port is possible with this dual winding configurations.

3. PART NUMBER SYSTEM:

HSB - 0603 - T - 01

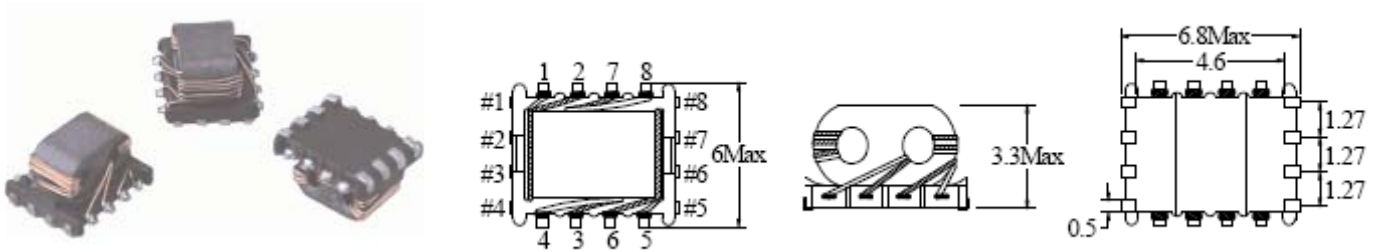
(1) (2) (3) (4)

- (1) Series name.
- (2) 0603 is size.
- (3) T is reel tape package.
- (4) 01 is sequence number

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4. PHYSICAL CHARACTERISTICS:



5. ELECTRICAL CHARACTERISTICS:

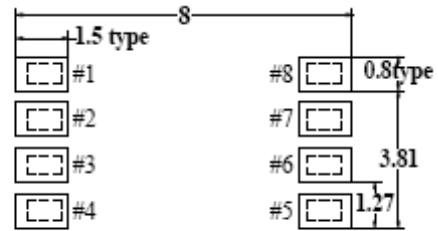
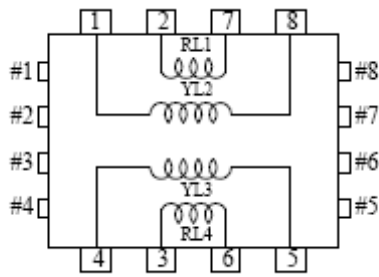
Part Number	Insertion Loss (HP-8714C)			
	50MHz	100MHz	300MHz	500MHz
HSB0603T-01				
HSB0603T-02	2.8dB ± 2.0dB	7.3dB ± 2.5dB	12.0dB ± 3.0dB	14.0dB ± 3.0dB
HSB0603T-03				

Part Number	I DC (Max)	R DC (Max)	Impedance Common mode (HP-4291B)	Rated Voltage	Withstanding Voltage (CH-901)	Insulation Resistance (CH-702A)
HSB0603T-01	0.65A	0.3Ω	112Ω @ 100MHz	DC 50V	AC 150V 2mA/60S between winding and winding	DC100V 100Mohm MIN between winding and winding
			176Ω @ 400MHz			
HSB0603T-02	0.65A	0.3Ω	220Ω @ 100MHz			
			420Ω @ 400MHz			
HSB0603T-03	0.65A	0.3Ω	380Ω @ 100MHz			
			750Ω @ 100MHz			

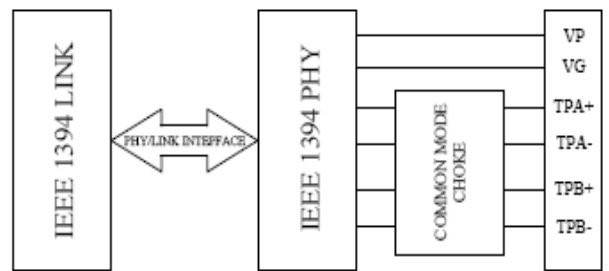
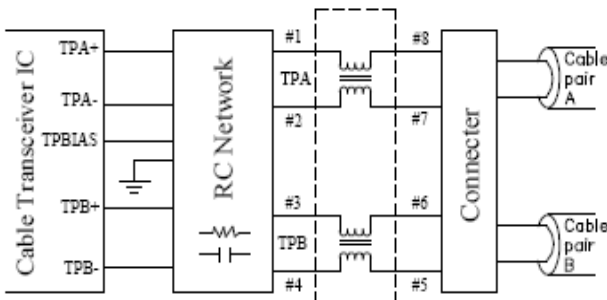
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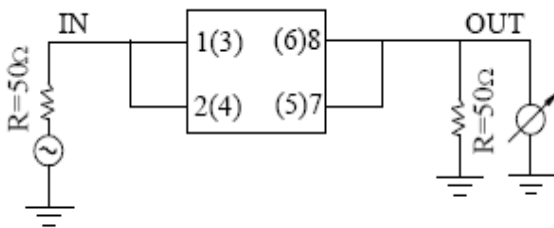
Circuit(Top View)&PAD:



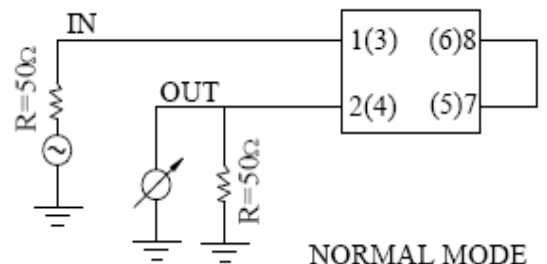
Twisted Cable Interface&IEEE 1394 Port:



Test Mode:

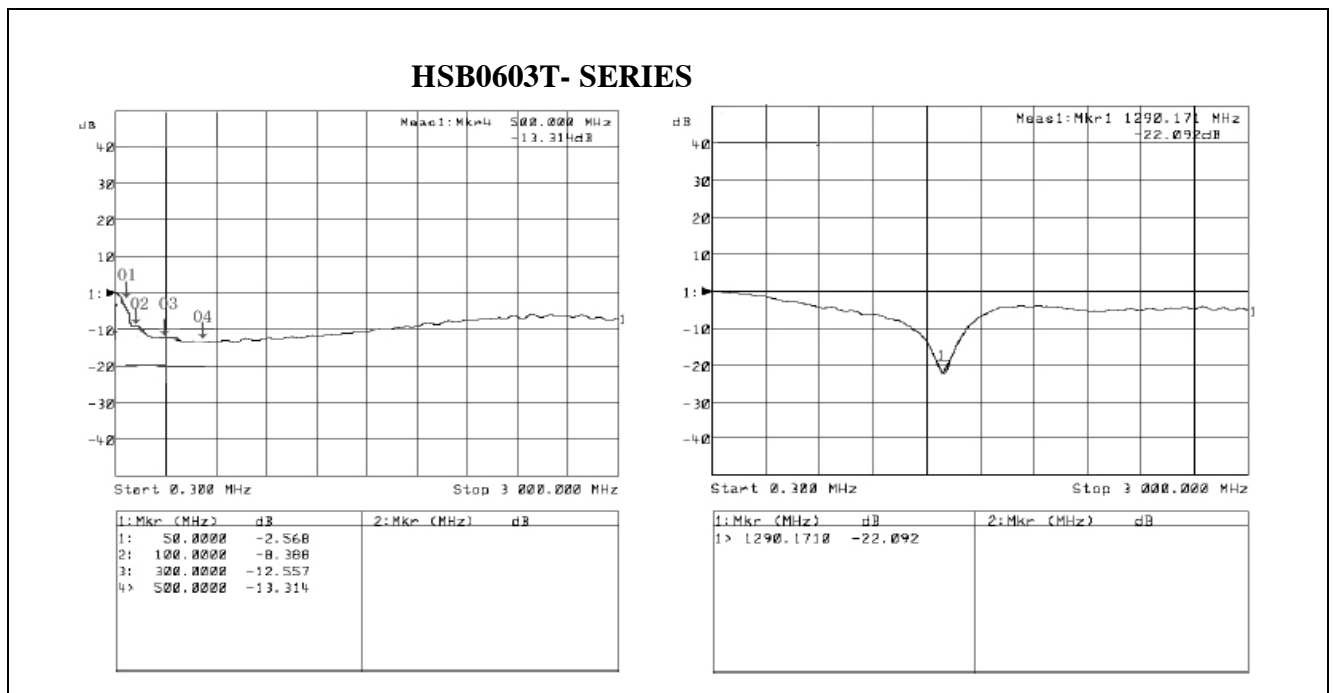


COMMON MODE



NORMAL MODE

Insertion Loss:



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|Z|-F:

