



NO: RD-SD-HD-081-A

DATE: 2014/04/09 T(REV:A6)

10/100BASE-T TRANSFORMER

MODEL NO.: HD-081-A

FEATURE:

RoHS Compliant

RoHS peak solder rating 260°C / 3~5 Sec

Do not use material and use that the prohibition that SS-00259 stipulates

Designed to meet IR requirement

Operating temp. : 0°C ~ +80°C

Specifications @ 25°C

OCL : 350 uH Min @100kHz ,100mv / 8mA

DCR: 1.5 Ω Max.

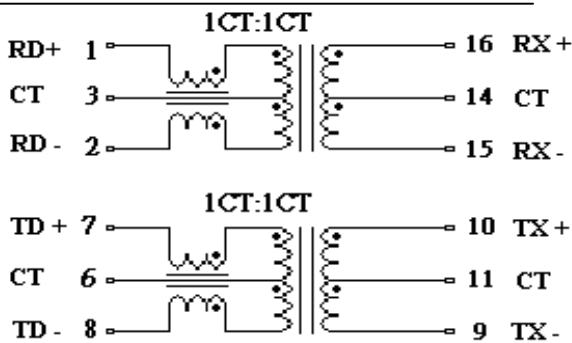
LL: 0.5uH Max.

Cw/w:30 pF Max.

MSL=2

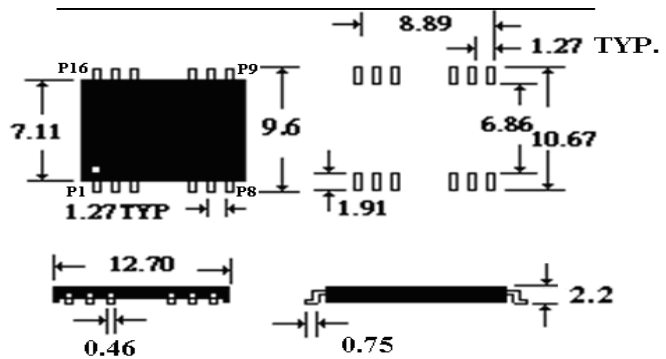
Part Number	Turns Ratio (±3%)	Insertion Loss (dB MAX)	Cross Talk (dB MIN)	Return Loss (dB MIN)			Common Mode Rejection (dB MIN.)			HIPOT (VAC)
HD-081-A	1CT:1CT	1 - 100MHz	1-100 MHz	1-40	40-80	80-100MHz	1-30	30-50	50-100 MHz	1500
		-1.0	-35	-16	-16~-10	-10~-8	-35	-33	-30	

SCHEMATICS:

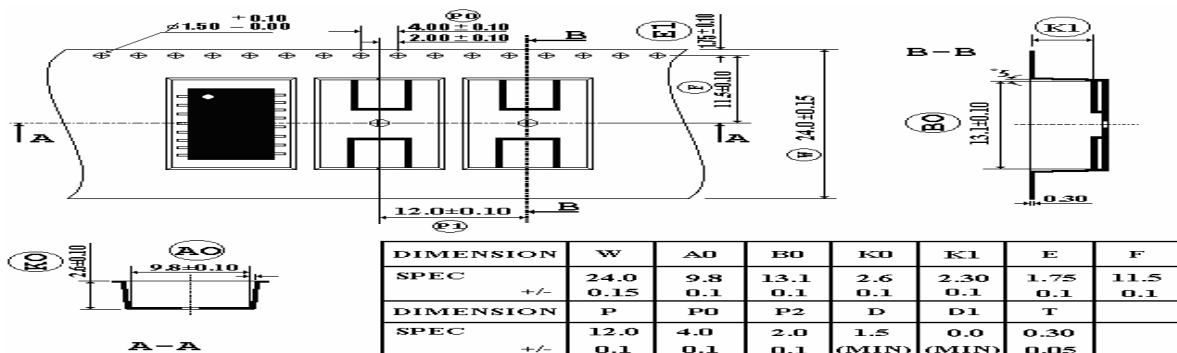


DIMENSION: mm

TOLERANCE: ±0.25



Packing :



Tape & reel-----2000/reel

MODEL NO.: HD-081-A

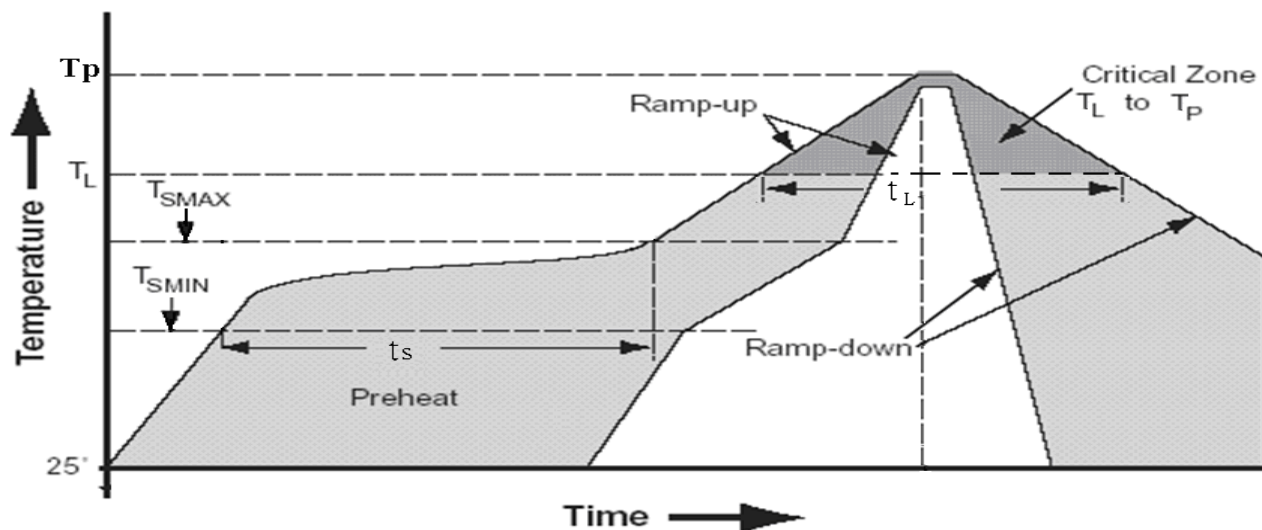
Solder Reflow profile for Lead-Free packages.

Package Peak Reflow Temperatures

Classification Reflow Profiles

Profile Feature	Lead-Free Assembly	
Average ramp-up rate(T_L to T_P)	3°C / Second Max.	
Preheat Temperature Min.(T_s min.) Temperature Max.(T_s max.) Time (min to max) (t_s)	150 °C 200 °C 60-180 sec	
T_s max. to T_L Ramp-up Rate	3°C / Second Max.	
Time maintained above Temperature (T_L) Time (t_L)	217 °C 60-150 sec	
Peak Temperature (T_p)	260 +0 / -5 °C	250 +0 / -5 °C
Time within 5 °C of actual peak Temp.	3 to 5 Sec	20 to 40 Sec
Ramp-down	6°C / Second Max.	
Time 25 °C to Peak Temperature	8 minutes Max.	

Profile





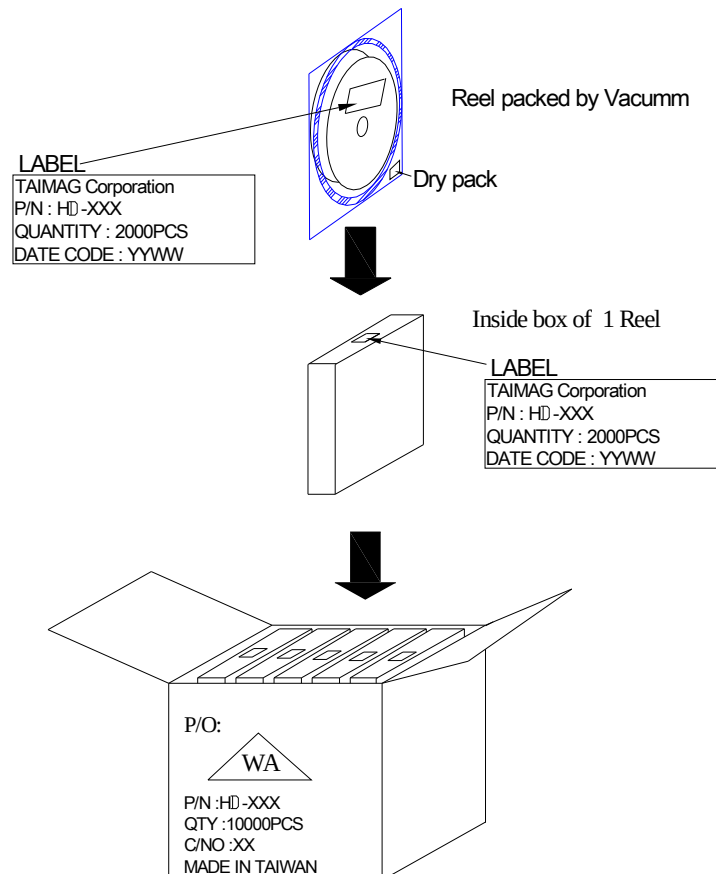
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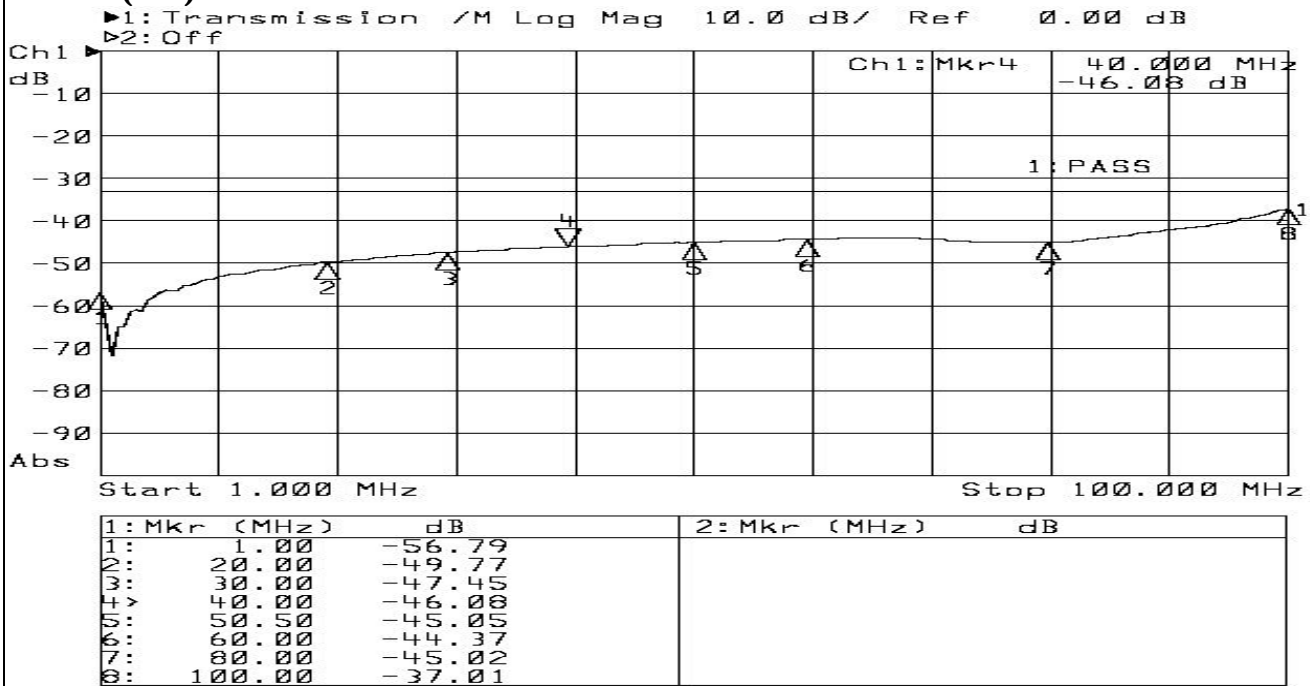
MODEL NO.: HD-081-A

PACKING

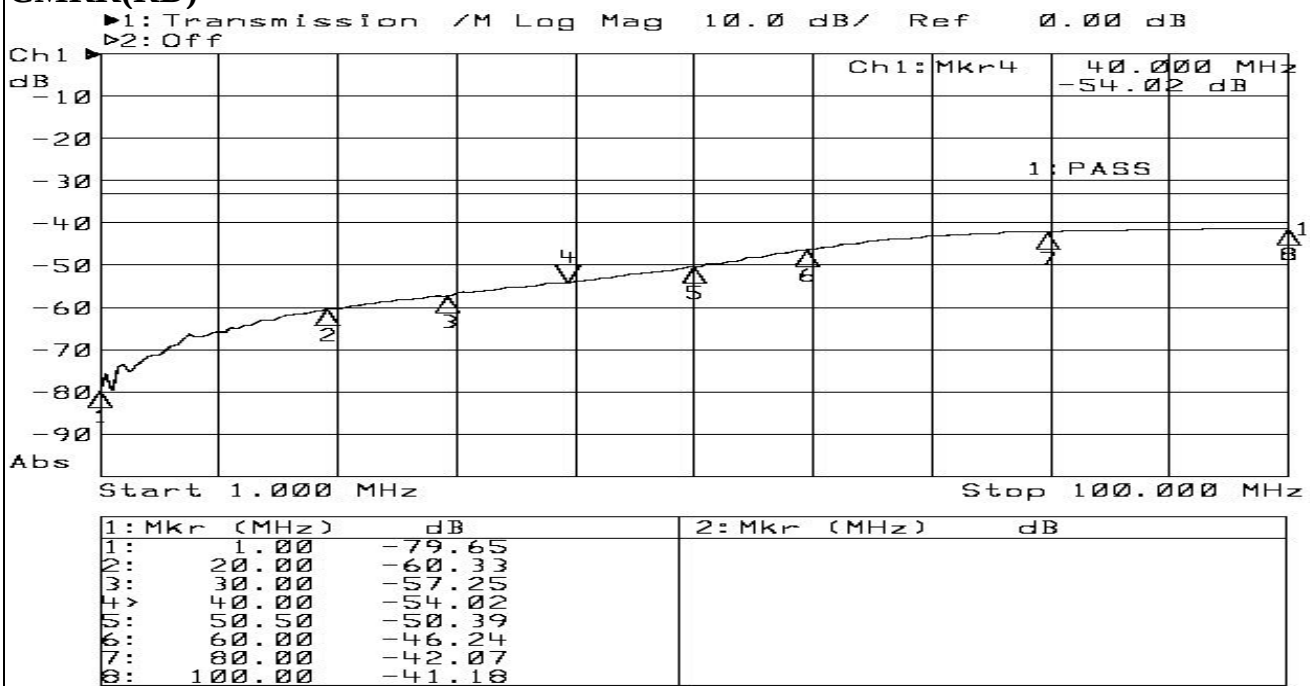
1. Tape & Reel: 2000 pcs / Reel, 10000 pcs / Carton
2. Dry Pack: 1 pc.
Product Description: 5g Silica Gel Desiccant
PH: 4-8
Package Materials: Paper (Length 6.5±1cm, Width 5±1cm)
3. Reel: Vacuum Packed
4. Seal as per JEDEC



CMRR(TD)

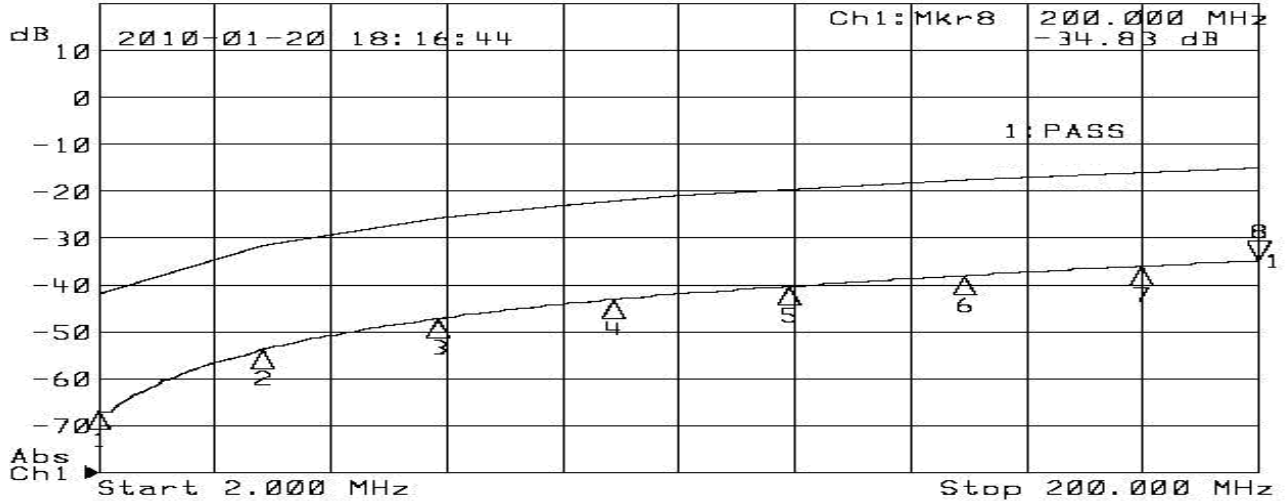


CMRR(RD)



DCMR(TD)

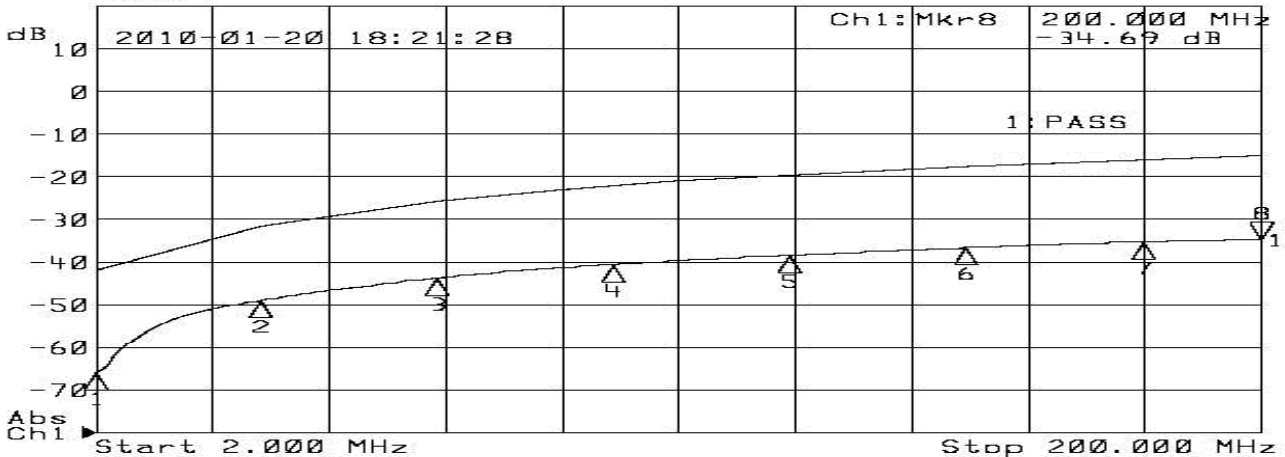
►1: Transmission /M Log Mag 10.0 dB/ Ref -80.00 dB
►2: Off



1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1: 2.00	-66.74		
2: 30.00	-53.80		
3: 60.00	-47.18		
4: 90.00	-43.07		
5: 120.00	-40.30		
6: 150.00	-38.00		
7: 180.00	-35.97		
8: 200.00	-34.83		

DCMR(RD)

►1: Transmission /M Log Mag 10.0 dB/ Ref -80.00 dB
►2: Off



1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1: 2.00	-66.03		
2: 30.00	-48.94		
3: 60.00	-43.76		
4: 90.00	-40.40		
5: 120.00	-38.41		
6: 150.00	-36.65		
7: 180.00	-35.25		
8: 200.00	-34.69		