Rev.: A

SPECIFICATION FOR APPROVAL 产品规格书

CUSTOMER:			
CUSTOMER P/N:	CND-tek 磁联达		
JXD P/N: JXDBT3F-434P	ISSUED DATE: 2022-10-11		
DESCRIPTION: RF Transformer			
PREPARED BY	APPROVED BY	QAASSURANCE	
jiuguijiang	limocjiw	jiuguijiang	

APPROVED BY CUSTOMER			
DIVISION	Confirmed By	Approved By	
SIGNATURE			
Date			

Customer Approval is Required Prior To Production Order



深圳磁联达电子有限公司

Shenzhen magnetic Lianda Electronics Co., LTD

Address: 505, West Block, No. 221, Niucheng Road, Niucheng Village, Baiwang Community, Xili Street, Nanshan District, Shenzhen Tel:0755-27652992 29016433 E-mail: sales1@cd-tek.com Website:www.cd-tek.com

JXD Electronics: Produ	ects Specification	CND-tek	
Product Description: RF Transforme		磁联达	
Specification For: Cus	tomer Approval	Revision	Α

- 1. Application:
- A. This RF transformer is for Frequency Mixer applications, and also has been designed for use at theCATV, TVB-D, homeplug AV MAC and PHY, MII/RMII host interface and integrated memory, Also this transformer are used for insulation purposes, To achieve a better signal-to-noise ratio, common mode chokes are also incorporated in the transformer. These prevent common mode signals to enter the Transformer or the PHY, Special termination techniques are used to further improve the quality of the Power line in a premise wiring system. This isolation transformer is essential in improving the balance of the transmitter and the receiver circuitry, and reducing common mode noise and EMI. Materials used in the products are UL94V-0 recognized, Products meet requirements of IEC 695-2-2 (needle flame test);

JXDBT3F series was designed to be compact size, and be used to convert between unbalanced balanced signals in the antenna inputs of tuner circuits for terrestrial digital broadcast compatible compact devices. Windings use paired or and triple wires for high uniformity; Base pins are end processed to allow direct mounting on PCB; Ideal for use in double balanced mixers, and as broad band transformer, transistors and for impedance conversion; also available including different inductance values and Q specifications adjusted to frequency requirements.

2. Mechanicals:



XD Electronics: Products Specification			CND- tek		
Product Description: RF Transforme				磁联达	
Specification Fo	or: Cu	istomer Approv	al	Revision	Α
3. Schematics:					
		Schematic	-0 4		
4. Electrical Perfo	ormance	:			
<u>Electrical Speci</u>	<u>fications</u>	<u>s @ 25 C: 3~20</u>	00MHz, Z=75 ohms		
a. Turns: Pir Pir	11~Pin2 12~Pin3•	: 3Ts · 3Ts·			
Pin	12 1 1115 14~Pin6:	6Ts			
b. Insertion	Loss: 3N	/Hz~200MHz	@ 2.0dB Max;		
c. Impedanc	e Ratio:	75:75			
d. Input Ret	urn Los: Tompo	s: 3MHz~200M ratura: 40 % to	Hz (a) 6.0dB Min $\pm 85 \mathcal{C}$	•	
f. Storage To	emperat	ure -55°C-100°C			
g. RF Power 0.25W					
5. Green BoM Lis	it: 4 and In	dive at meetowiel	ana maating Dalla	`	
(All of Direc	t and In	direct material	are meeting RoHs)	
Item P	arts	Description	Material	Manufacturer	UL No./SGS
P 1	lastic	5Pin SMD	PM9820	WE THE electronic	10183340
	Base		1111020	Co.,Ltd	
2 Fo	errite	RID Core	Ni-Zn uiac1000	Encore electronics	CE/2010/83821
(Core			Co.,Ltd	
	opper	Ø0.10mm	Copper (Coating	SHING SHUN	GZ0703038582
\ \ \	Vire	/0UEW 155°C	UEW N/U)	Magnet wire Ltd.	/CHEM
4 Si	licon	Varnish	1EVA-V1380FC	ShawHuow enterprise Co.,Ltd.	CE/2010/43052A
5 S	older	Sn/Cu:	Sn/Cu	DaiHui Chemicals	KA/2010/51481A
(indirect)	Bar	99.3/0.7	511/Cu	Co.,Ltd.	-02



Page 4 of 9



JXD Electronics: Products Specification			CND-tek	
Product Description: RF Transforme			磁联达	
Specification For	r: Customer App	oroval	Revision	Α
6. Reliability Test	ting:			
TEST ITEMS	SPECIFICATIONS	TEST CON	NDITIONS/TEST MET	HODS
ELECTRICAL PER	RFORMANCE TEST			
INSERTION LOSS	REFER TO STANDARD ELECTRICAL	HP-5062A OR EQUIV		
DC RESISTANCE	CHARACTERISTIC LIST	CH-3252 OR EQUIV		
TEMPERATURE RISE TEST	40°C MAX (∆t)	 APPLIED THE ALLOW TEMPERATURE MEAS SURFACE THERMOM 	'ED DC CURRENT FOR SURE BY DIGTAL ETER.	4 HOURS.
MECHANICAL PE	RFORMANCE TEST			
SOLDER HEAT RESISTANCE	1. PRODUCT SHOULD HAVE NO EVIDENCE OF ELECTRICAL AND	 a. PERHEAT: 150°C 100S b. SOLDER: (Pb Free) c. SOLDER TEMP: 260±. d. DIP TIME:10s Max. 	Max. 260 °C 183 °C 150 °C Preheating T	10sMax Natural cooling 9:100sMax ime(s)
VIBRATION TEST (LOW FREQUENCY)	DAMAGE. 2. IMPEDANCE SHOULD NOT CHANGE MORE	 a. AMPLITUDE: 1.5mm b. FREQUENCY: 10~55~1 c. DIRECTIN: X,Y,Z d. DURATION: 2Hrs/X,Y,Z 	0Hz/1Min Z	
SHOCK TEST	THAT ±10%.	INDUCTORS SHOULD BE ONTO 3CM WOODEN BOA	DROPPED 10 TIMES FI	ROM A HEGHT OF 1M
SOLDERABILITY TEST	MORE THAN 90% OF TERMINDAL ELECTRODE SHOULD BE COVERED WITH SOLDER	 a. PREHEAT: 150°C 120s b. SOLDER: Pb FREE c. SOLDER TEMP: 245± d. DIP TIME: 10s MAX. 	245°C 183°C 150°C Preheati Ti	10sMax Natural cooling 50±10s me(s)

JXD Electronics: Products Specification Product Description: RF Transforme			CND-tek 磁联达	
Specification Fo	r: Customer App	oroval	Revision	Α
TEST ITEMS	SPECIFICATIONS	TEST CON	NDITIONS/TEST MET	HODS
COMPONENT ADHESION (PUSH TEST)	1.5Kg MIN.	THE DEVICE SHOULD BE REASOLDERED (232±5℃ FOR 10 A TINNED COPPER SUBSTRATA ADYNOMETER FORCE GAUC SHOULD BE APPLIED TO THE SIDE OF THE COMPONENT.TI DEVICE MUST WITH ST1.5Kg WITHOUT AILURE OF THE TERMINATION ATTACHED TO COMPONENT.	FLOW bs)TO TE. GE CORE HE SOLDER	GLASS EPDXY SUBSTRATE WITH COPPER CLAD
COMPONENT ADHESION (PULL TEST)	1.5Kg MIN	a. INSERT 10cm WIRE INTO TH REMAINING OPEN EYE BENI THE ENDS OF EVEN WIRE LENGTHS UPWARD AND WIN TOGETHER. b. TERMINAL SHALL NOT BE REMARKABLY DAMAGED.	HE O, ND	
FLEXTURE STRENGTH	THE FORCES APPLIED SHOULD NOT DAMAGE THE DIELECTRIC	SOLDER A CHIP ON A TEST SUBSTRATE. BEND THE SUBSTRATE BY 2mm AND RETURE.	45mm 4	Bending 5mm 40mm
RESISTANCE TO SOLVENT TEST	THERE SHOULD BE NO CASE DEFORMATION, CHANGE IN APPEARANCE OR BITERATION OF MARKING	PRODUCT SHALLWITHST.	AND 6 MINUTES OF AL	COHOL.

JXD Electronics:	Products Specific	cation		
Product Description	n: RF Transform	ie		
Specification Fo	r: Customer App	oroval	Revision	Α
TEST ITEMS	SPECIFICATIONS	TEST CO	NDITIONS/TEST N	METHODS
CLIMATIC TEST				
TEMPERATURE CHARACTERISTIC		-40°C ~ +85°C a. TEMPERATURE: 60± b. HUMIDITY: 90%- 95%	2℃ PH	
HUMIDITY TEST		 b. HUMIDITY: 90%~95% c. APPLIED CURRENT: 1 d. TIME: 96±2Hrs e. MEASURE AT ROOM 	MAX RATED CURREN TEMPERATURE AF	NT TER PLACING FOR 24Hrs
LOW TEMPERATURE STORAGE	A. APPERANCE: NO DAMAGE	 a. TEMPERATURE: -40 b. TIME: 96±2Hrs c. CYCLES: 10 CYCLES d. TIME: 30min. 	°C±2°C	
THERMAL SHOCK TEST	B. IMPEDANCE: WITHIN ±20% OF	 a. TEMPERATURE1: -45 TEMPERATURE2: 125 b. CYCLES: 10 CYCLES c. TIME: 30min 	$5^{\circ}C \pm 2^{\circ}C$ Temp. $3^{\circ}C \pm 2^{\circ}C$ $+125^{\circ}C$ Room temperature	1Cycle T 30 min 30min -40°C
HIGH TEMPERATURE STORAGE	INTIAL VALUE	 a. APPLIED CURRENT: 1 b. TEMPERATURE: 125% c. TIME: 96Hrs±2Hrs d. MEASURE AT ROOM 	MAX REATED CUR C ±2℃ TEMPERATURE AF	RENT TER PLACING FOR 24Hrs
NOTE: PRODUCT ARE T	O BE TESTED AFTER 4 HC	OURS AT ROOM TEMPERATI	URE.	
LIFE TEST				
HIGH TEMPERATURE LOAD LIFE TEST		 a. TEMPERATURE: 125°C b. TIME: 500±12Hrs c. LOAD: ALLOWED DC 	$C \pm 2^{\circ}C$	
HUMIDITY LOAD LIFE TEST		 a. TEMPERATURE: 60°C b. R.H.:90~95% c. TIME: 500±12Hr d. LOAD: ALLOWED DC 	±2°C C CURRENT	

I

JXD Electronics: Products Specification		
Product Description: RF Transforme		
Specification For: Customer Approval	Revision	Α

Confirmation of Non-use of Hazardous Substances

Hereby we (JXD) declared that all the row material and process, also this part will be delivered to your company are fulfill the policy of 2002/95/EC-RoHS.

2002/95/EC-RoHS restrictive list:

Item	Description	Maximum allowable level
1	Cadmium (Cd)	100 PPM; 0.01% by weight
2	Mercury (Hg)	1000 PPM; 0.1% by weight
3	Lead (Pb)	1000 PPM; 0.1% by weight
4	Hexavalent Chromium (Cr6+)	1000 PPM; 0.1% by weight
5	Polybrominated Biphenyls (PBB)	1000 PPM; 0.1% by weight
6	Polybrominated Biphenyls Ethers (PBDE)	1000 PPM; 0.1% by weight

Shenzhen magnetic Lianda Electronics Co., LTD.

General Engineer