SPECIFICATION

FOR CERAMIC FILTER

JIA KANG P/N : LTS5.85MDB

LTS5.85MDB-TF

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CERAMIC FILTER SPECIFICATION

1.SCOPE

This specification is applied to ceramic filter used for SIF unit.

2.SPECIFICATION NO:

3.PART NUMBER: LTS5.85MDB

4. ELECTRICAL SPECIFICATIONS

No	Item	Requirements
4.1	Nominal Center Frequency (Fn)	5.85MHz
4.2	3 dB Band Width	±110KHz min
4.3	20dB Band Width	750KHz max
4.4	Insertion Loss	6.0dB max.
4.5	Spurious Response	
	0—5.85MHz	30dB min.
	5.85—7.0MHz	15dB min.
	7.0—10.0MHz	30dB min
4.6	Withstanding Voltage	DC 50V, 1 min
4.7	Insulation Resistance	100M Ω □1min□50V)
4.8	Operation Temperature	-20+80
4.9	Input/Output Impedance	600 Ω

5.MEASUREMENT

5.1 Measurement Condition

Parts shall be measured under a condition (Temp:5-35 \Box .Humi: 45-85%) Unless any necessity to measure under a standard condition (Tem:20± 2 \Box ,Humi:65± 5%) is occurred.

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5.2 MEASUREMENT CIRCUIT



Rg+R1=R2=Input/output Impedance C=10Pf (Including stray capacitance and input Capacitance of RF voltmeter)

6.0 DIMENSION



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[7.PHYSICAL	AND ENV	IRONMENTAL	CHARACTERISTICS	3

No	Item	Condition of Test	Performance
			Requirements

		1	n
7.1	Lead Strength	Force of 0.5Kg is applied to each lead	The filter shall
	Lead Pulling	in axial direction. When force of 25Kg to	show no evidence
	Lead Bending	each lead in axial direction, the lead	of damage and
		shall folded up to 90 degree from the	shall fulfill all the
		axial direction and folded back to the	initial electric
		axial direction.	characteristics
7.2	Solderability	Dip the filter terminals into the solder	The solder shall
		bath at 235±5□ for 5±0.5 sec.	coat at least 90%
			of the surface of
			terminal
7.3	Vibration	Filter shall be measured after being	
		applied vibration as below	
		Vibration Freq: 600 to 3,300r.p.m	
		Amplitude: 1.5mm Directiona: 3 axial	
		Time: 1 hour /each direction	
	Random drop	Filter shall be measured after 3 times	It shall fulfill the
7.4		random dropping from the height of	specifications in
		70cm to the wood plate	Table 1.
7.5	Resistance to	Dip the filter terminals no closer than 2	
	Solder Heat	mm into the solder bath at	
		$350\pm5\Box$ for 3 ± 0.5 sec, filter shall be	
		measured after being placed in natural	
		condition for 1 hour.	
7.6	Temperature	Filter shall be measured within -20	
	characteristic	to80 temperature range. Temperature	Ref.To value of:
		coefficient (center frequency of 3db	+20 : ±100ppm/
		bandwidth)	🗆 max
		Variation of insertion loss	±2db
7.7	Humidity	Keep the filter at $40\pm 2\Box$ and	It shall fulfill the
		90-95% RH for 96 hours. Then release	specifications in
		the filter into the room condition for 1	Table 1.
		hour prior to the measurement.	
7.8	Life test	After being placed in a chamber	It shall fulfill the
	High	(temp:80 □)for 1000 hours ,filter shall	specifications in
	Temperature	be measured after being placed in	Table 1.
		natural condition for 1 hour.	

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7. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS (Continued from the

Preceding page)

No	Item	Condition of Test	Performance
			Requirements
7.9	Life text Low Temperature	After being placed in a chamber (temp:20 □) for 1000hours, filter shall be measured after being placed in natural condition for 1 hour.	
7.10	Thermal shock	After temperature cycling of -55 (30min)to +85 (30 min) was performed 5times,filter shall be measured after being placed in natural condition for 1 hour	It shall fulfill the specifications in Table 1.

TABLE1

Item	Specification	
Insertion Loss Shift	± 2 dB max.	
3 dB Band Width	± 25KHz	
20 dB Band Width	±40KHz	

8.NOTICE

□ This specification limits the quality of the components as a single unit. Please make sure that the component is evaluator and confirmed the drawing when it is mounted to your product.

□ we can not warrant against mishaps caused by any use of this product that deviated from intended use as described in this drawing.

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9. Taping

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MARK	SIZE(mm)
Р	12.7±0.5
Po	12.7±0.2
P1	3.85±0.5
P2	6.35±1.3(include the slant of product)
Wo	5.5±0.5
W1	9.0±0.5
ц	18.0+0.5,
	-1.0
H1	27.0 max
H2	36.0 max
ΦDo	4.0±0.2
t1	0.6±0.2
t2	1.5 max
□h	1.0 max

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9.1 Stipulation of Products Alignment

9.1.1.Dropout of parts shall be confined to no more than 3 continuous parts.

- 9.1.2. Dropout of parts on a reel shall be less than 0.25% of net quantity.
- 9.1.3.All products shall face their marking side toward the hold down tape.

(Upward in the figure below in this page)

9.2 Tape Connection

9.2.1.in the case of a carrier tape running out



Connect the back face of tapes together with a adhesive tape Total thickness of tape t:1.05mm max.

9.2.2.In the case of a hold down tape running out



Overlap the hold down tape for connection

Total thickness of tape t:1.05mm max.

9.2.3.In the case of connecting both carrier tape and hold down tape Connect both carrier tape and hold down tape together with adhesive tape Without pulling out the products.

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10.Flat Pack Packaging 10.1 Dimensions of box



10.2 Leader Tape

More than 300mm leader tape with no products shall be provided at both end of the tape.

10.3 Packing Style:

Tape is folded at every 25 pitches in zigzag way, and contained in the box. Aluminum sticks are inserted the third hole from both edge of the tape. Those are used to keep steady state. Shock absorber shall be placed between products and box.

10.4 Packing Quantity:

2000pcs are contained in box.

10.5 Label:

The minimum packaging unit shall be one box. and each box shall have a label which shows part number, inspection number and the number of contents.

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