

Datasheet of SAW Device

SAW Triple Filter

for Band1,3,7 / 1in3out Unbalanced / 8pin /1814

Murata PN: SATEY1G84AU0F0A

Feature > For CA



Note : This Murata SAW Component is Consumer grade product and applicable for Cellular phone or similar end devices. Please also read Important Notice at the end of this document.



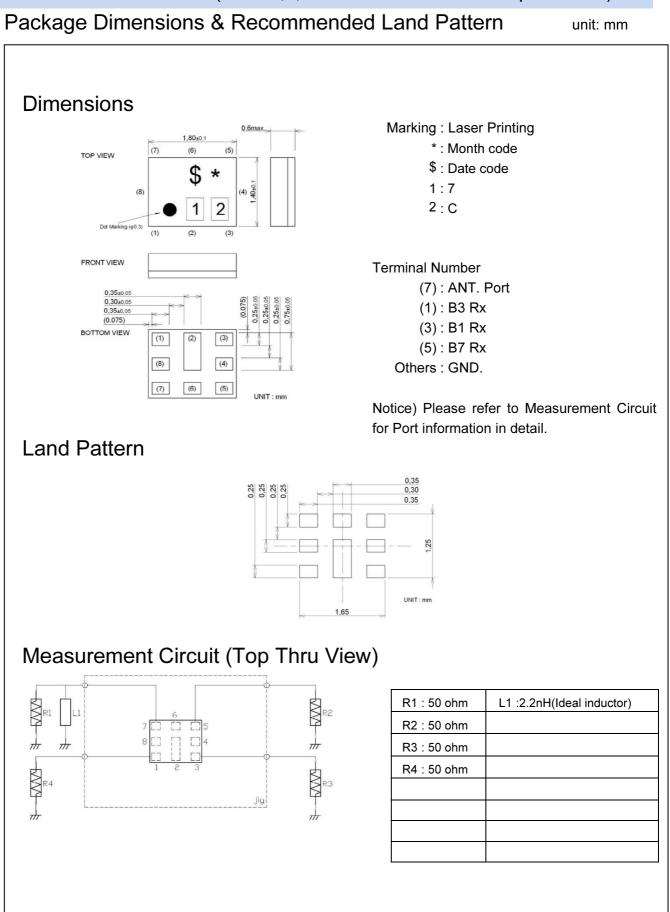


- Operating temperature : -20 to +85 deg.C
- Storage temperature : -40 to +85 deg.C
- Input Power : +10 dBm 8000 h
- D.C. Volatage between the terminals : 3V (25+/-2 deg.C)

: Yes

- Minimum Resistance between the terminals : 10M ohm
- RoHS compliance
- ESD (ElectroStatic Discharge) sensitive device







Electrical Characteristic < Low Freq. Filter >

Electrical Cha	lacten	้อแ				<u>ן. ги</u>			
Band3						Characteristics			Note
						(-20 to +85 deg.C)			
					min.	typ.*	max.		
Center Frequency						1842.5		MHz	
Insertion Loss	1805.	to	1880.	MHz		2.3	3.0	dB	
	1807.5	to	1877.5	MHz		2.2	2.7	dB _{INT}	Any 4.5MHz
Ripple Deviation	1805.	to	1880.	MHz		1.0	2.1	dB	
VSWR	1805.	to	1880.	MHz		2.2	2.5		
Absolute Attenuation	1.	to	1710.	MHz	30	35		dB	
	824.	4	95. 849.	MHz	50 40	86 49		dB dB	
	832.	to	862.	MHz MHz	40	49		dB	
	880.	to	915.	MHz	40	49		dB	
	1615.	to to	1690.	MHz	31	37		dB	
	1710.	to	1785.	MHz	33	42		dB	Band3 Tx
	1712.5	to	1782.5	MHz	37	42		dB _{INT}	Any 4.5MHz
	1785.	to	1790.	MHz	8.0	27.0		dB	
	1920.	to	1980.	MHz	35	40		dB	Band1 Tx
	1922.5	to	1977.5	MHz	35	40		dB _{INT}	Any 4.5MHz
	1920.	to	6000.	MHz	30	37		dB	
	2400.	to	2500.	MHz	40	44		dB	
	2500.	to	2570.	MHz	39	42		dB	Band7 Tx
	2502.5	to	2567.5	MHz	39	42		dB _{INT}	Any 4.5MHz
	3515.	to	3610.	MHz	40	49		dB	
	3610.	to	3760.	MHz	40	46		dB	
	3760.	to	13025.	MHz	15	22		dB	
	4900.	to	5950.	MHz	32	37		dB	
	5225.	to	5415.	MHz	33	38		dB	
	5415.	to	5640.	MHz	32	38		dB	
	7220.	to	7520.	MHz	30	36		dB	
	9025.	to	9400.	MHz	20	40		dB	
	10830.		11280.	MHz	15	31		dB	
	12635.	to	12750.	MHz	15	22		dB	
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* Typical value at 25±2deg.C



Electrical Characteristic < Middle Freq. Filter >

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* Typical value at 25±2deg.C



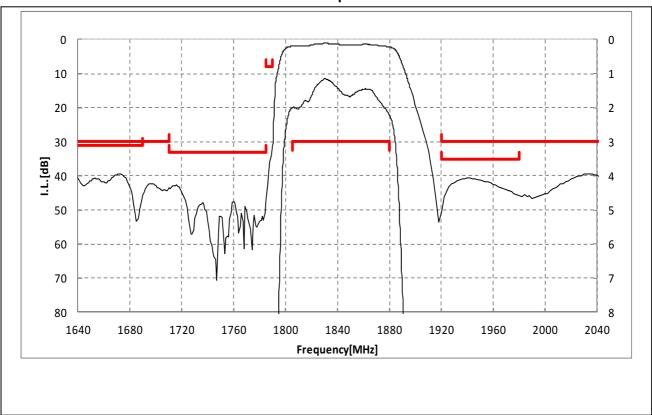
Electrical Characteristic < High Freq. Filter >

Characteristics Unit Note Center Frequency min. MHz 2855 MHz Terreguency MHz 2825 MHz Terreguency MHz 28 32 dB Right Deviation 222:25 MHz 22:25 MHz S Absolute Attenuation 10:2500 MHz 22:25 dB Absolute Attenuation 4555 MHz 22:25 MHz 22:25 dB 4 MHz 4 May 4.5MHz 17:10:10:17:85 MHz 4 MHz 4 MHz 32:10 MHz 24:0 MB ₂ 4 MHz 4 4		racion	Su		ngn				-	Ι
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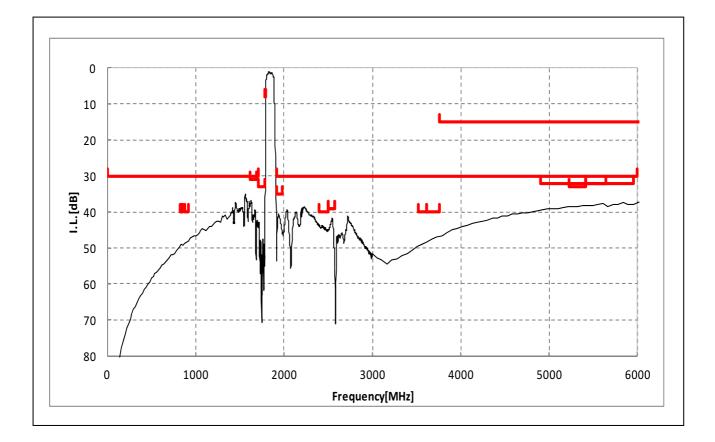
* Typical value at 25±2deg.C



Electrical Characteristic

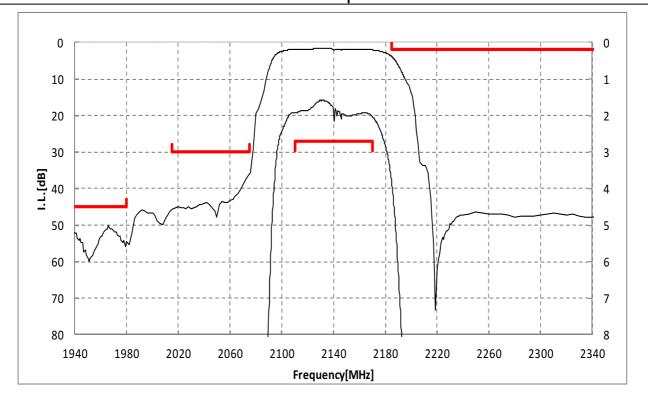




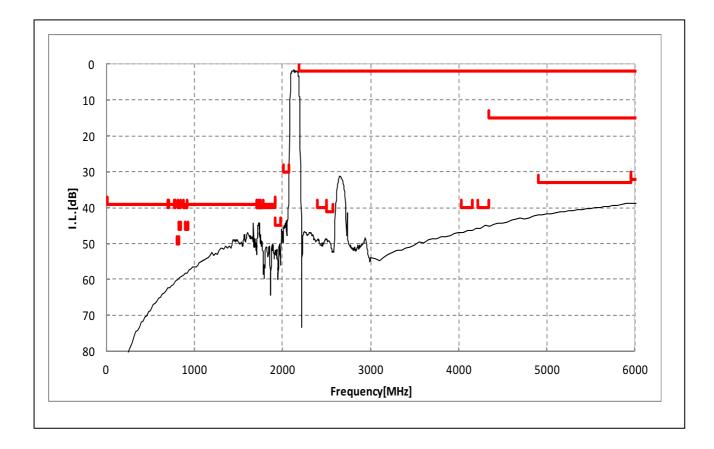




Electrical Characteristic

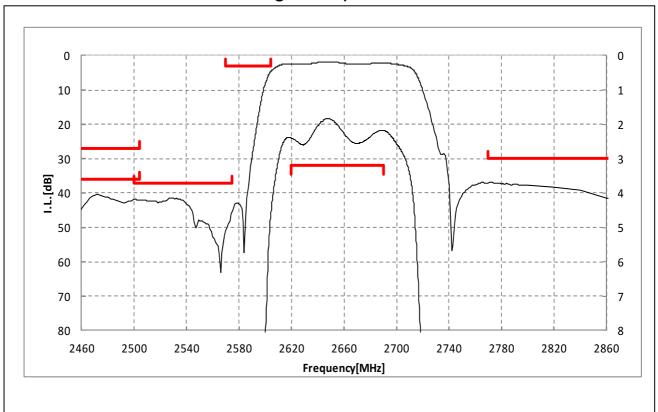


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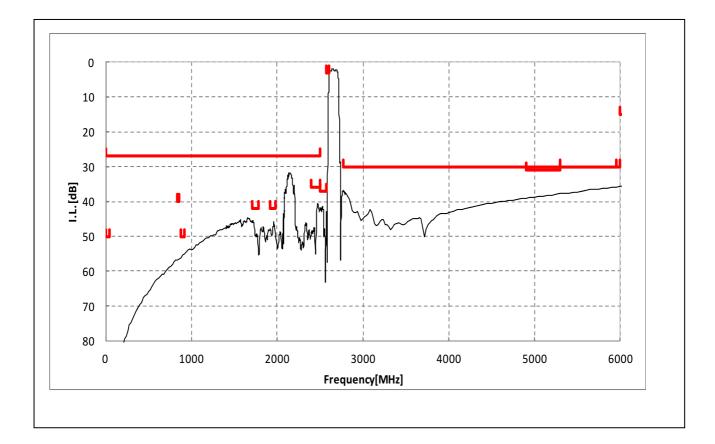




Electrical Characteristic



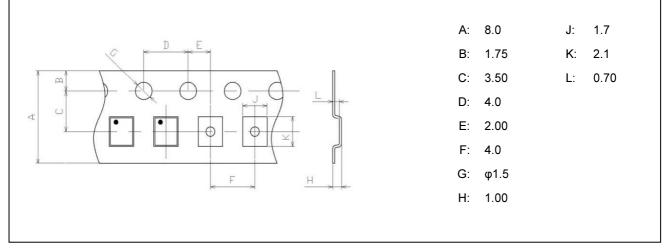
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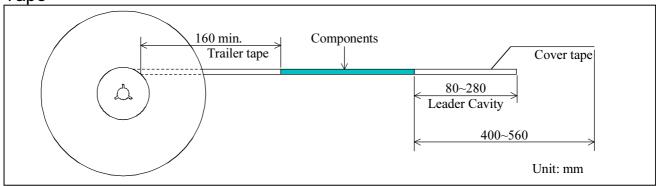


Dimensions of Tape & Reel unit: mm

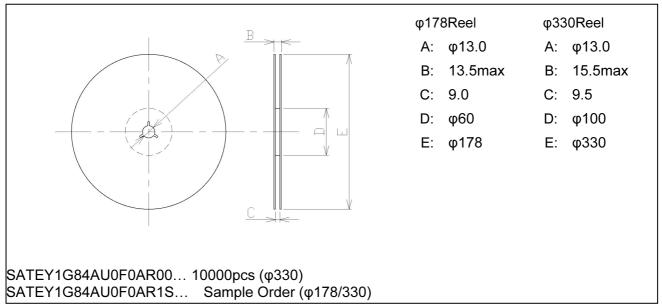
Carrier Tape



Tape



Reel





Important Notice (1/2)

PLEASE READ THIS NOTICE BEFORE USING OUR PRODUCTS.

Please make sure that your product has been evaluated and confirmed from the aspect of the fitness for the specifications of our product specified in the front page of this product specifications (the "Product" or "Products") when our Product is mounted to your product. All the items and parameters in this product specification/datasheet/catalog have been prescribed on the premise that our Product is used for the purpose, under the condition and in the environment specified in this specification. You are requested not to use our Product deviating from the condition and the environment specified in this specification.

Please note that the only warranty that we provide regarding the Product is its conformance to the specifications provided herein. Accordingly, we shall not be responsible for any defects in products or equipment incorporating such Products, which are caused under the conditions other than those specified in this specification.

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Furthermore, YOU AGREE TO INDEMNIFY AND DEFEND US AND OUR AFFILIATES AGAINST ALL CLAIMS, DAMAGES, COSTS, AND EXPENSES THAT MAY BE INCURRED, INCLUDING WITHOUT LIMITATION, ATTORNEY FEES AND COSTS, DUE TO THE USE OF OUR PRODUCTS IN THE PROHIBITED APPLICATIONS.

- (a) Aircraft equipment.
- (b) Aerospace equipment
- (c) Undersea equipment.
- (d) Power plant control equipment
- (e) Medical equipment.
- (f) Transportation equipment (vehicles, automotive, trains, ships, etc.).
- (g)Traffic signal equipment.
- (h)Disaster prevention / crime prevention equipment.
- (i) Burning / explosion control equipment
- (j) Application of similar complexity and/ or reliability requirements to the applications listed in the above.

For the avoidance of doubt, the Product is not automotive grade, and will not support such requests for automotive as below, also not support other specific requests for automotive.

- AEC-Q200
- PPAP
- IATF16949,VDA6.3
- Zero Defect program
- Long product life cycle
- Automotive 8D failure analysis and report



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The Product shall not be used in any other application/model than that of claimed to Murata.

Customer acknowledges that engineering samples may deviate from specifications and may contain defects due to their development status.

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·deviation or lapse in function of engineering sample,

• improper use of engineering samples.

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