



RoHS Compliant

**Features**

- Small size
- Low insertion loss
- High selectivity
- Hermetic seal

**Applications**

- GNSS

**How to Order**

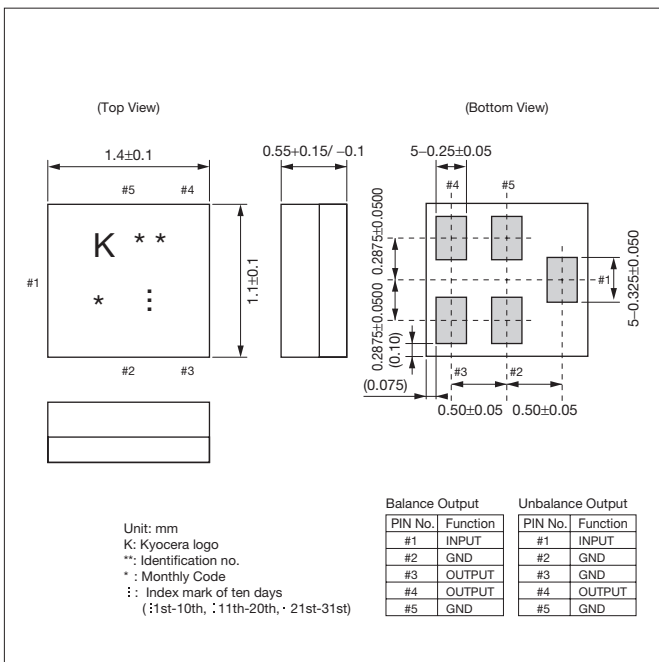
**SF 14 - 1575 M 5 UB A1**  
① ② ③ ④ ⑤ ⑥ ⑦

- ① Type of Product (SAW Filter)
- ② Package Size
- ③ Nominal Center Frequency
- ④ Spec.
- ⑤ Number of Terminals
- ⑥ Input/ Output
- ⑦ Custom Specification

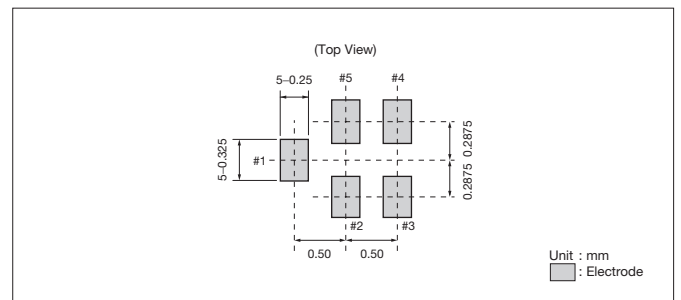
**Specifications**

Part No.	Output	Application	Pass Band Frequency	Insertion Loss (dB)	Pass Band Variation (dB)	VSWR (In/ Out)	Absolute Rejection (dB)						Operating Temperature	Storage Temperature
							810MHz	1429MHz	1501MHz	1920MHz	1980MHz	2400MHz		
SF14-1575M5UBA1	Balanced	GPS Rx	1574.42MHz - 1576.42MHz	1.6 max.	1.0 max.	1.6 max. / 1.6 max.	810MHz 50 min.	1429MHz 35 min.	1501MHz 27 min.	1920MHz 41 min.	1980MHz 29 min.	2400MHz 46 min.	-30 to +85°C	-40 to +85°C
SF14-1575M5UBB1			1574.42MHz - 1576.42MHz	2.0 max.	1.0 max.	1.8 max. / 1.8 max.	810MHz 50 min.	1429MHz 35 min.	1453MHz 30 min.	1625MHz 23 min.	1920MHz 50 min.	1980MHz 35 min.		
SF14-1575F5UUA1	GPS Rx	GPS Rx	1573.92MHz - 1576.92MHz	1.2 max.	0.6 max.	1.7 max. / 1.7 max.	843MHz 40 min.	1429MHz 38 min.	1501MHz 30 min.	1920MHz 40 min.	1980MHz 40 min.	2500MHz 35 min.		
SF14-1575F5UUC1			1574.42MHz - 1576.42MHz	0.8 max.	0.6 max.	1.8 max. / 1.8 max.	824MHz 20 min.	1500MHz 20 min.	1625MHz 20 min.	1710MHz 20 min.	2170MHz 20 min.	—		
SF14-1582M5UUD2	Unbalanced	GPS GLONASS COMPASS	1574.39MHz - 1576.45MHz	1.5 max.	—	2.0 max. / 2.0 max.	10MHz 925MHz	925MHz 960MHz	1427MHz 1463MHz	1850MHz 1910MHz	1920MHz 1980MHz	2401MHz 2483MHz		
			1565.19MHz - 1585.65MHz	2.0 max.		2.0 max. / 2.0 max.								
			1559.05MHz - 1563.15MHz	2.3 max.		2.2 max. / 2.3 max.								
			1597.55MHz - 1605.89MHz	2.2 max.		2.0 max. / 2.0 max.								
						40 min. / 40 min.								

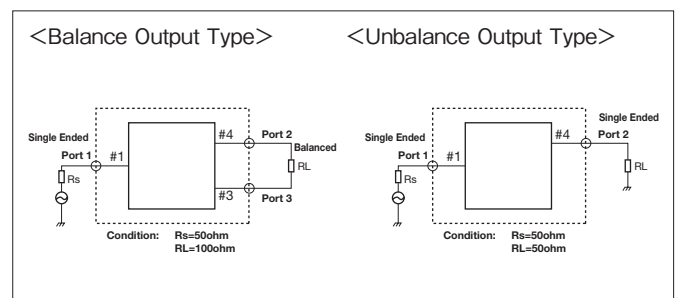
**Dimensions**



**Recommended Land Pattern**



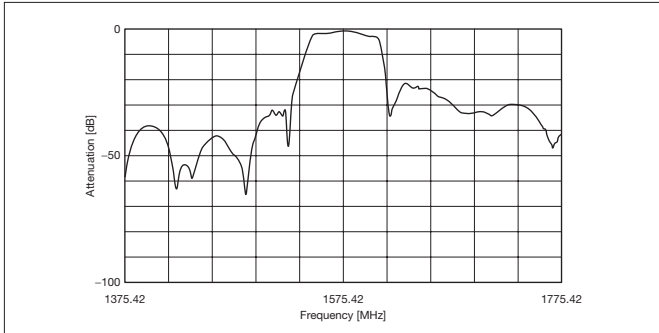
**Test Circuit**



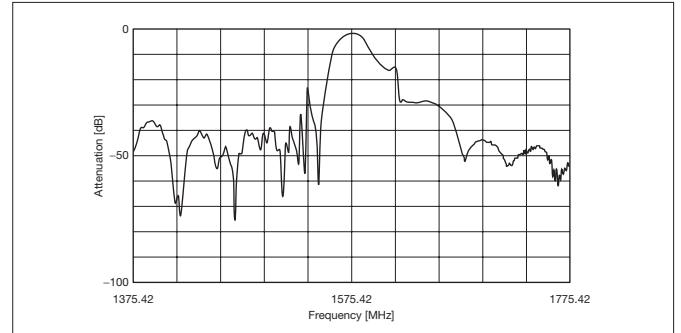


**Characteristics**

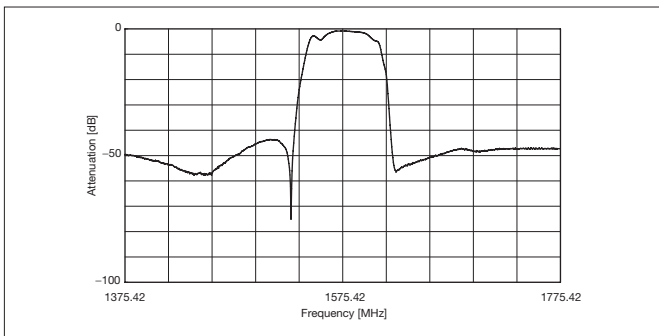
Part No.: SF14-1575M5UBA1



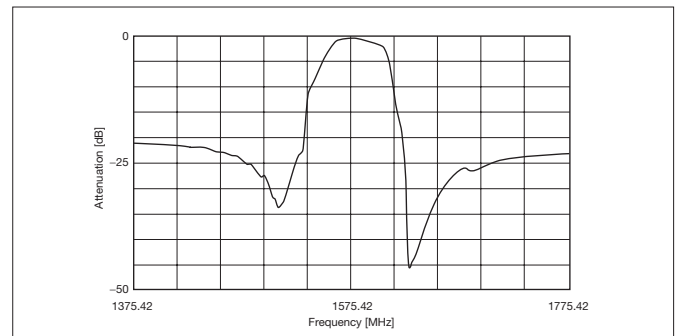
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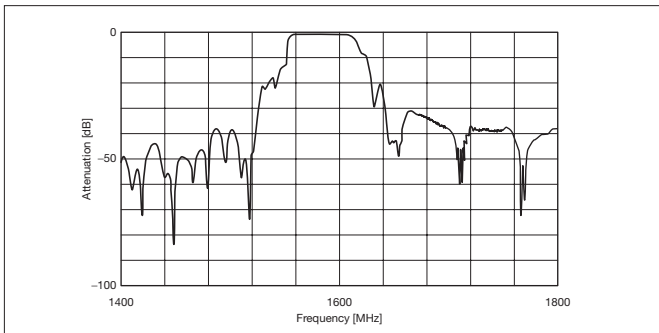
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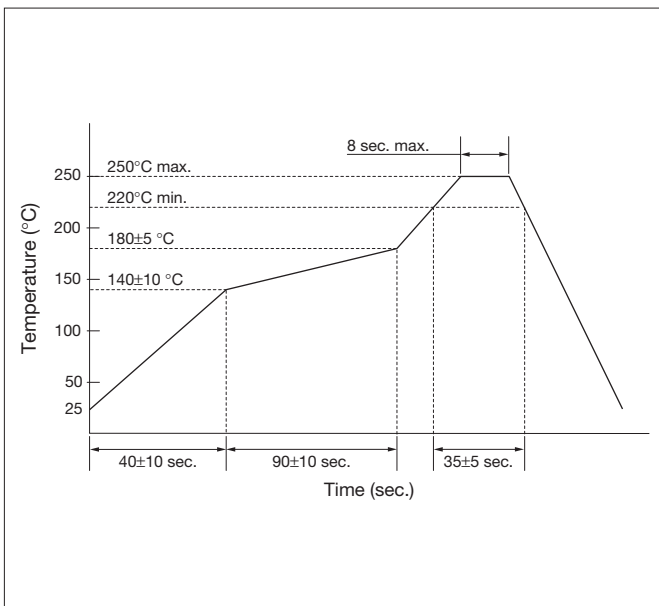
Part No.: SF14-1575F5UUC1



Part No.: SF14-1582M5UUD2



**Recommended Reflow Profile**

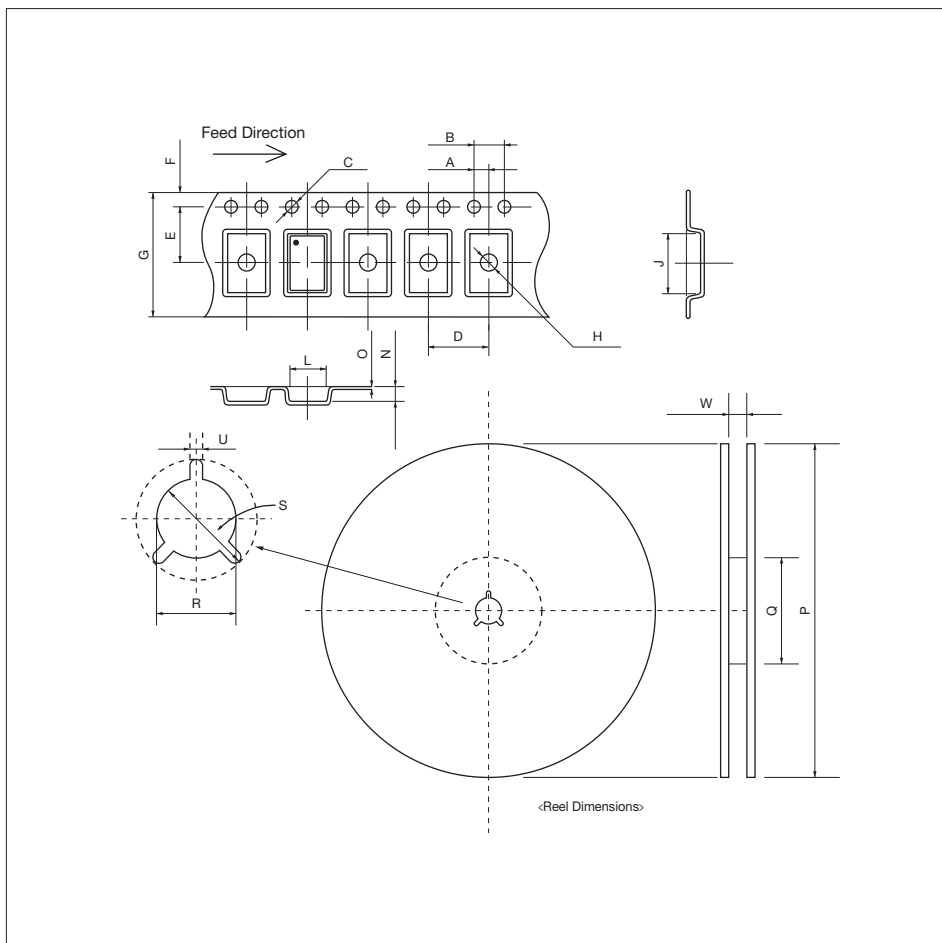


**Tape & Reel Specifications**

**SAW Duplexers/ SAW Filters**

(Unit: mm)

		SAW Duplexers			SAW Filters				
		SD18	SD20	SD25	SF14	SF15	SF16	SF18	SF20
T A P E	A	2.0±0.05	2.0±0.05	2.0±0.05	2.0±0.05	2.0±0.05	2.0±0.05	2.0±0.05	2.0±0.05
	B	4.0±0.1	4.0±0.1	4.0±0.1	4.0±0.1	4.0±0.1	4.0±0.1	4.0±0.1	4.0±0.1
	C	φ1.5+0.1/ -0	1.5±0.1	φ1.5±0.1	φ1.5±0.1	1.5±0.1	1.5±0.1	φ1.5+0.1/ -0	1.5±0.1
	D	4.0±0.1	4.0±0.1	4.0±0.1	4.0±0.1	4.0±0.1	4.0±0.1	4.0±0.1	4.0±0.1
	E	3.5±0.05	3.5±0.05	3.5±0.05	3.5±0.05	3.5±0.05	3.5±0.05	3.5±0.05	3.5±0.05
	F	1.75±0.1	1.75±0.1	1.75±0.1	1.75±0.1	1.75±0.1	1.75±0.1	1.75±0.1	1.75±0.1
	G	8.0±0.1	8.0±0.2	8.0±0.2	8.0±0.2	8.0±0.2	8.0±0.2	8.0±0.1	8.0±0.2
	H	φ0.8±0.05	1.1±0.1	φ1.1±0.1	φ0.5±0.05	0.5±0.1	1.1±0.1	φ0.8±0.05	1.1±0.1
	J	2.05±0.1	2.25±0.1	2.9±0.1	1.7±0.1	1.80±0.1	1.90±0.1	2.05±0.1	2.25±0.1
	L	1.7±0.1	1.8±0.1	2.4±0.1	1.4±0.1	1.4±0.1	1.85±0.1	1.7±0.1	1.8±0.1
	N	0.85+0/ -0.5	0.7±0.1	1.15±0.1	0.8±0.1	0.7±0.1	0.95±0.2	0.85+0/ -0.5	0.7±0.1
O	0.2±0.05	0.2±0.05	0.25±0.05	0.2±0.05	0.2±0.05	0.25±0.05	0.2±0.05	0.2±0.05	
R E E L	P	φ178±2	φ178±2	φ178±2	φ178±2	φ178±2	φ178±2	φ178±2	φ178±2
	Q	φ60±2	φ60±2	φ60±2	φ60±2	φ60±2	φ60±2	φ60±2	φ60±2
	R	φ13±0.2	φ13±0.2	φ13±0.2	φ13±0.2	φ13±0.2	φ13±0.2	φ13±0.2	φ13±0.2
	S	φ21±0.8	φ21±0.8	φ21±0.8	φ21±0.8	φ21±0.8	φ21±0.8	φ21±0.8	φ21±0.8
	U	2±0.5	2±0.5	2±0.5	2±0.5	2±0.5	2±0.5	2±0.5	2±0.5
	W	9.5±1	9.5±1	9.5±1	9.5±1	9.5±1	9.5±1	9.5±1	9.5±1
Qty.		3000	3000	3000	3000	3000	3000	3000	3000



# Mouser Electronics

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