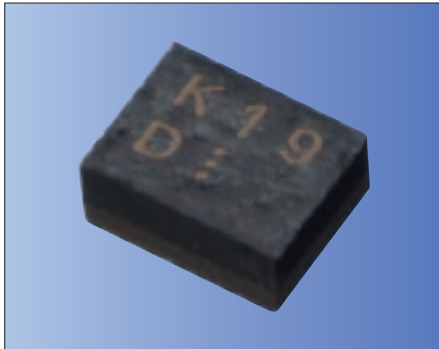




RoHS Compliant

Features

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

Application

- GNSS

How to Order

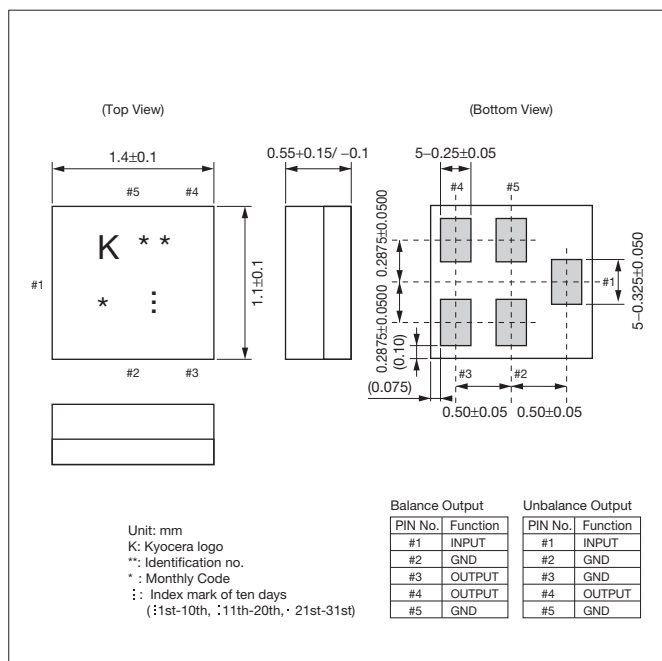
SF 14 - 1575 M 5 UB A1
① ② ③ ④ ⑤ ⑥ ⑦

- 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

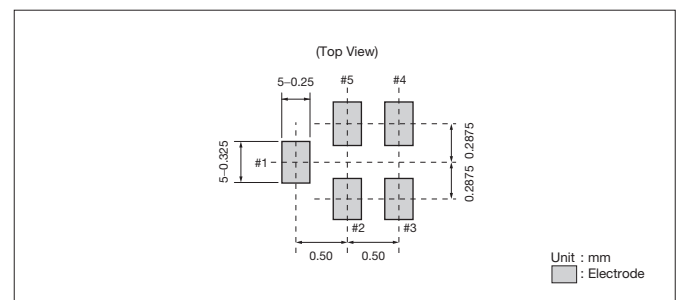
Specifications

Part No.	Output	Application	Pass Band Frequency	Insertion Loss (dB)	Pass Band Variation (dB)	VSWR (In/ Out)	Absolute Rejection (dB)						Operating Temperature	Storage Temperature	
SF14-1575M5UBA1	Balanced	GPS Rx	1574.42MHz - 1576.42MHz	1.6 max.	1.0 max.	1.6 max. / 1.6 max.	810MHz 960MHz 50 min.	1429MHz 1453MHz 35 min.	1501MHz 1525MHz 27 min.	1920MHz 1980MHz 41 min.	1980MHz 2400MHz 29 min.	2400MHz 2500MHz 46 min.	-30 to +85°C	-40 to +85°C	
SF14-1575M5UBB1		GPS Rx	1574.42MHz - 1576.42MHz	2.0 max.	1.0 max.	1.8 max. / 1.8 max.	810MHz 960MHz 50 min.	1429MHz 1453MHz 35 min.	1453MHz 1525MHz 30 min.	1625MHz 1920MHz 23 min.	1920MHz 1980MHz 50 min.	1980MHz 5000MHz 35 min.			
SF14-1575F5UUA1	GPS Rx	1573.92MHz - 1576.92MHz	1.4 max.	0.6 max.	1.7 max. / 1.7 max.	843MHz 925MHz 40 min.	1429MHz 1501MHz 38 min.	1501MHz 1525MHz 30 min.	1920MHz 1980MHz 40 min.	1980MHz 2500MHz 40 min.	2500MHz 3000MHz 35 min.				
SF14-1575F5UUC1	GPS Rx	1574.42MHz - 1576.42MHz	0.8 max.	0.6 max.	1.8 max. / 1.8 max.	824MHz 960MHz 20 min.	1500MHz 1525MHz 20 min.	1625MHz 1650MHz 20 min.	1710MHz 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.									

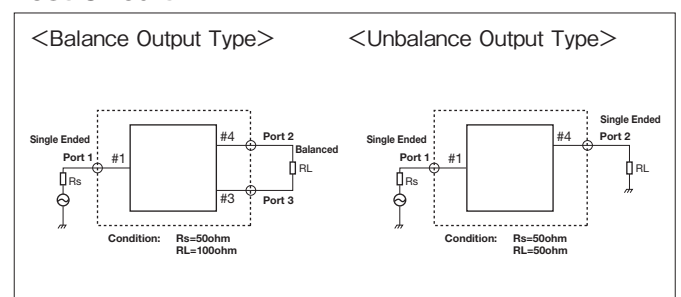
Dimensions



Recommended Land Pattern



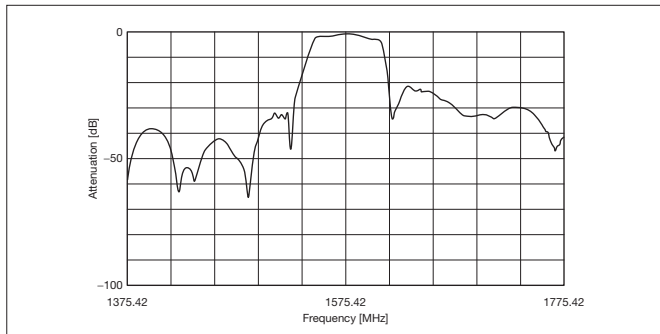
Test Circuit



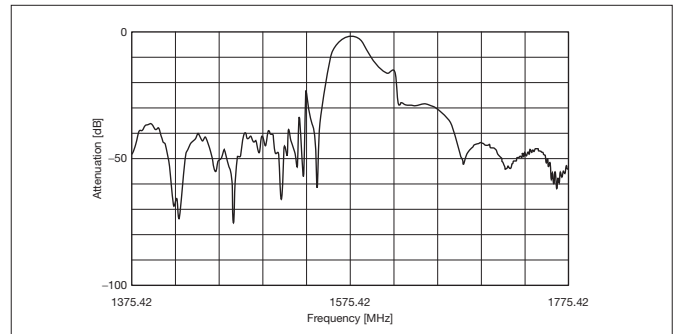


Characteristics

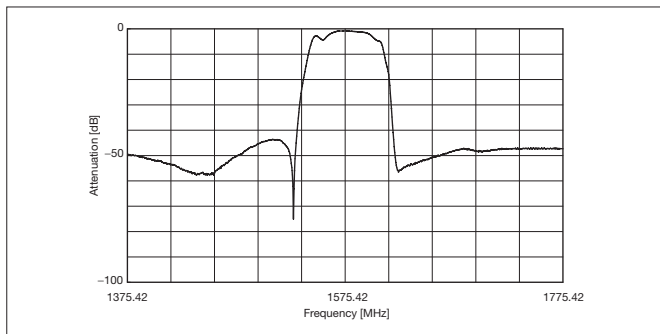
Part No.: SF14-1575M5UBA1



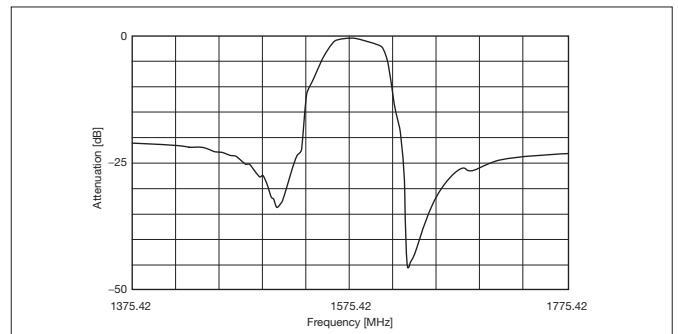
Part No.: SF14-1575M5UBB1



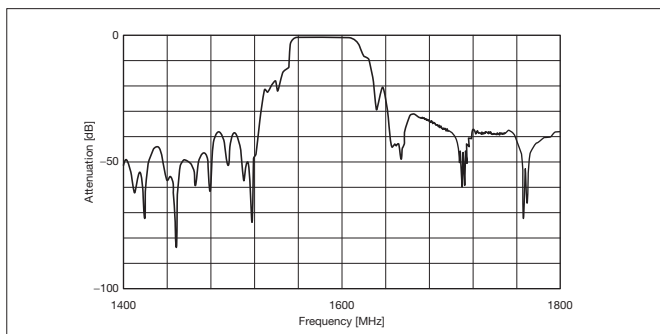
Part No.: SF14-1575F5UUA1



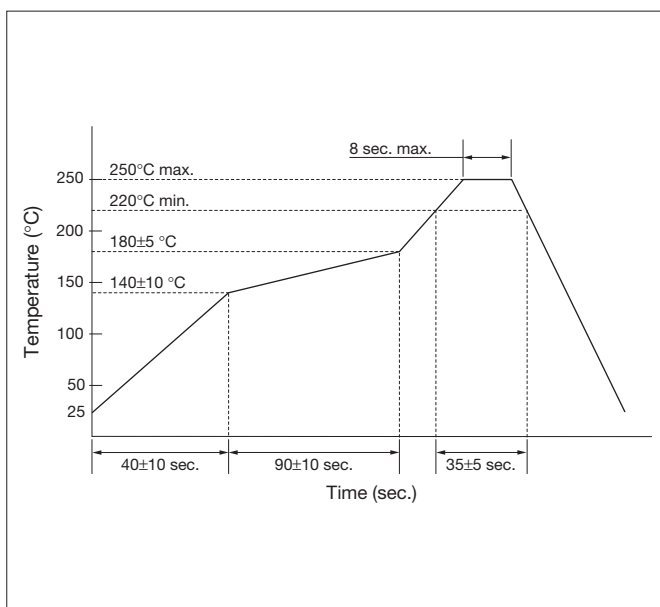
Part No.: SF14-1575F5UUC1



Part No.: SF14-1582M5UUD2



Recommended Reflow Profile





Tape & Reel Specifications

SAW Duplexers/ SAW Filters/ SAW Modules

(Unit: mm)

		SAW Duplexers			SAW Filters					SAW Modules	
		SD18	SD20	SD25	SF14	SF15	SF16	SF18	SF20	LF-U309D7	LS-T910S1
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	2.0±0.1	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	4.0±0.1	4.0±0.1
	C	$\phi 1.5+0.1/-0$	1.5±0.1	$\phi 1.5\pm 0.1$	$\phi 1.5\pm 0.1$	1.5±0.1	1.5±0.1	$\phi 1.5+0.1/-0$	1.5±0.1	$\phi 1.5+0.1/-0$	$\phi 1.5+0.1/-0$
	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	8.0±0.1	8.0±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	5.5±0.1	5.5±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	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	12.0±0.3	12.0±0.3
	H	$\phi 0.8\pm 0.05$	1.1±0.1	$\phi 1.1\pm 0.1$	$\phi 0.5\pm 0.05$	0.5±0.1	1.1±0.1	$\phi 0.8\pm 0.05$	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	5.3±0.1	2.85±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	4.3±0.1	2.85±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	1.2±0.1	1.2±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	0.3±0.05	0.3±0.05
R E E L	P	$\phi 178\pm 2$	$\phi 178\pm 2$	$\phi 178\pm 2$	$\phi 178\pm 2$	$\phi 178\pm 2$	$\phi 178\pm 2$	$\phi 178\pm 2$	$\phi 178\pm 2$	$\phi 330\pm 2$	$\phi 330\pm 4$
	Q	$\phi 60\pm 2$	$\phi 60\pm 2$	$\phi 60\pm 2$	$\phi 60\pm 2$	$\phi 60\pm 2$	$\phi 60\pm 2$	$\phi 60\pm 2$	$\phi 60\pm 2$	$\phi 100\pm 1$	$\phi 100\pm 1$
	R	$\phi 13\pm 0.2$	$\phi 13\pm 0.2$	$\phi 13\pm 0.2$	$\phi 13\pm 0.2$	$\phi 13\pm 0.2$	$\phi 13\pm 0.2$	$\phi 13\pm 0.2$	$\phi 13\pm 0.2$	$\phi 13\pm 0.2$	$\phi 13\pm 0.2$
	S	$\phi 21\pm 0.8$	$\phi 21\pm 0.8$	$\phi 21\pm 0.8$	$\phi 21\pm 0.8$	$\phi 21\pm 0.8$	$\phi 21\pm 0.8$	$\phi 21\pm 0.8$	$\phi 21\pm 0.8$	$\phi 21\pm 0.8$	$\phi 21\pm 0.8$
	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	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	13.5±1	13.4±1
Qty.		3000	3000	3000	3000	3000	3000	3000	3000	4000	4000

