

SAW Filters

RF SAW Filters for GSM SF18 Series (Duplex Type 2 in 1 Filter)



RoHS Compliant

Features

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

Application

- GSM

How to Order

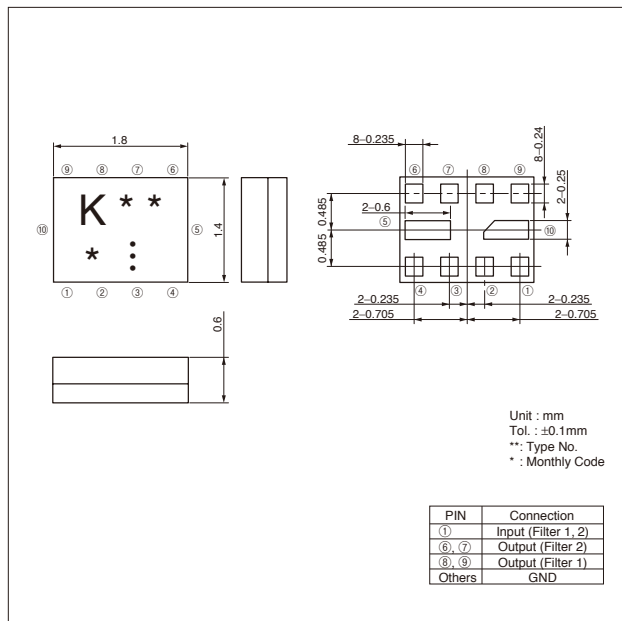
SF 18 - 0942 G A SB A1
 ① ② ③ ④ ⑤ ⑥ ⑦

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

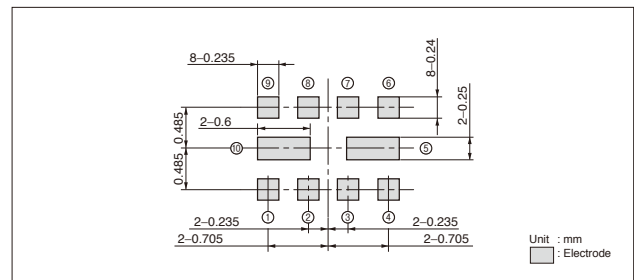
Specifications

Part No.	Output	Application	Pass Band Frequency	Insertion Loss (dB)	Pass Band Variation (dB)	VSWR	Absolute Rejection (dB)								Operating Temperature	Storage Temperature
SF18-0942GASBA1	Balanced	(Filter1) GSM900 Rx	925MHz - 960MHz	3.2 max.	1.5 max.	2.1 max.	0MHz 860MHz	860MHz 880MHz	880MHz 905MHz	905MHz 915MHz	915MHz 1050MHz	1050MHz 2880MHz	2880MHz 6000MHz	-30 to +85°C	-40 to +85°C	
		(Filter2) GSM850 Rx	869MHz - 894MHz	2.5 max.	1.5 max.	2.0 max.	0MHz 800MHz	800MHz 824MHz	824MHz 849MHz	849MHz 960MHz	960MHz 970MHz	970MHz 2000MHz	2000MHz 6000MHz			
Part No.	Output	Application	Pass Band Frequency	Insertion Loss (dB)	Pass Band Variation (dB)	VSWR	Absolute Rejection (dB)								Operating Temperature	Storage Temperature
SF18-1960DASBA1	Balanced	(Filter1) GSM1900 Rx	1930MHz - 1990MHz	3.0 max.	1.8 max.	2.2 max.	0MHz 1830MHz	1830MHz 1910MHz	1910MHz 2070MHz	2070MHz 3000MHz	3000MHz 5700MHz	5700MHz 5970MHz	5970MHz 6000MHz	-30 to +85°C	-40 to +85°C	
		(Filter2) GSM1800 Rx	1805MHz - 1880MHz	3.0 max.	1.5 max.	2.3 max.	0MHz 1300MHz	1300MHz 1705MHz	1705MHz 1920MHz	1920MHz 1980MHz	1980MHz 3000MHz	3000MHz 4000MHz	4000MHz 6000MHz			

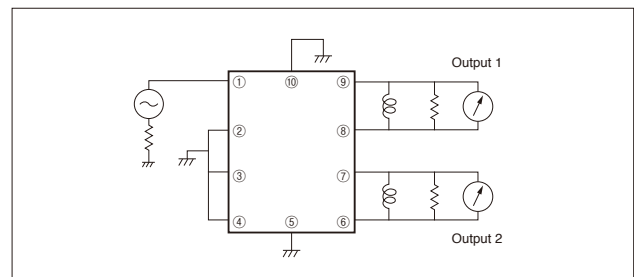
Dimensions



Recommended Land Pattern

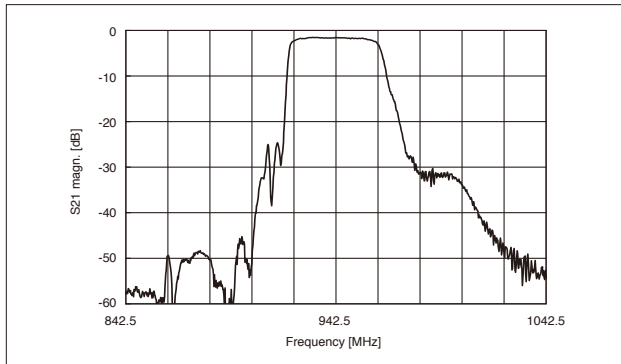


Test Circuit

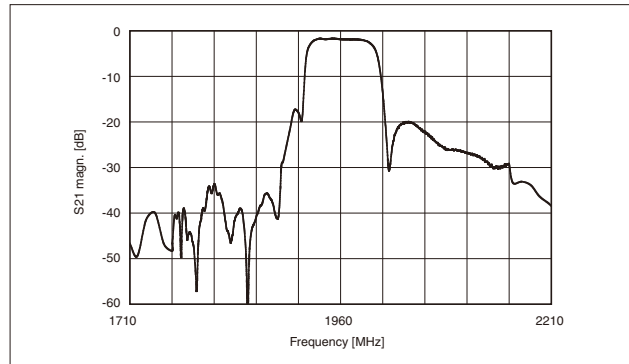


Characteristics

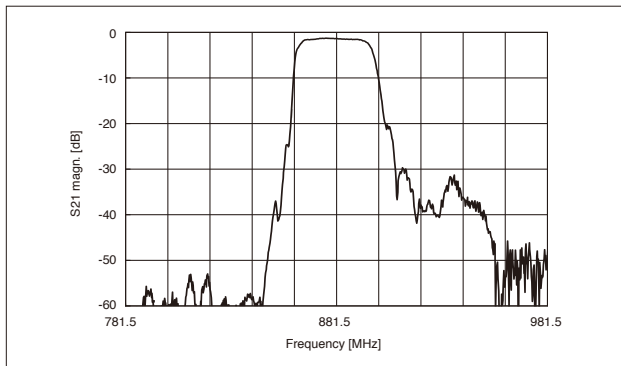
<GSM900> Part No.: SF18-0942GASBA1



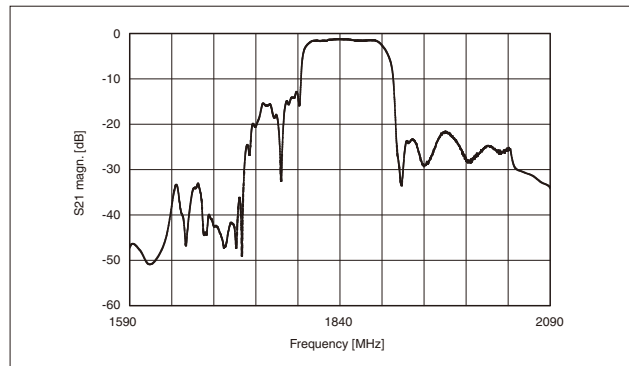
<GSM1900> Part No.: SF18-1960DASBA1



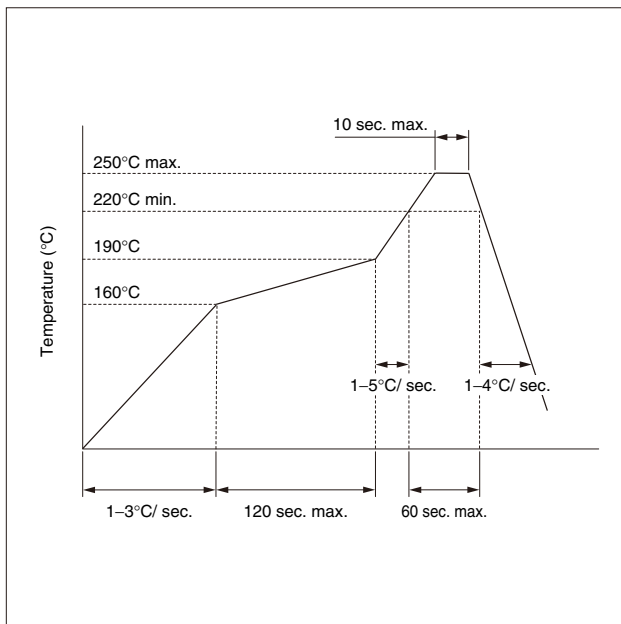
<GSM850> Part No.: SF18-0942GASBA1



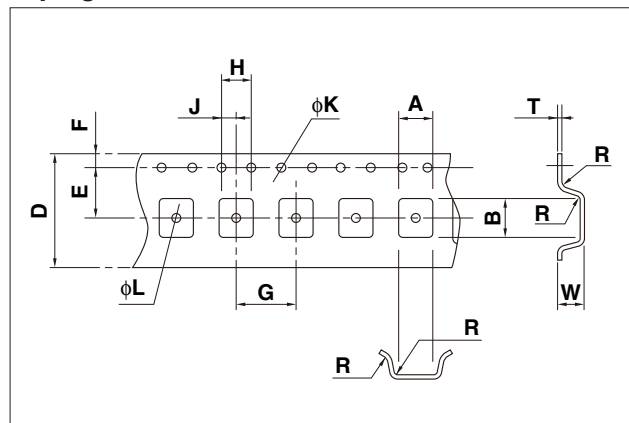
<GSM1800> Part No.: SF18-1960DASBA1



Recommended Reflow Profile



Taping Dimensions



(Unit: mm)

Part	A	B	D	E	F
Dimension	1.7±0.05	2.05±0.05	8.0±0.1	3.5±0.05	1.75±0.1
Part	G	H	J	K	L
Dimension	4.0±0.1	4.0±0.1	2.0±0.05	1.5 ^{+0.1} ₋₀	0.8±0.05
Part	R	W	T		
Dimension	0.2 max.	0.85 ⁺⁰ _{-0.5}	0.2±0.05		