

Multilayer Antenna Switch Filters

Series: **L**



Multilayer Antenna Switch Filters for dual band telephones (GSM/DCS), featuring low insertion loss and high isolation.

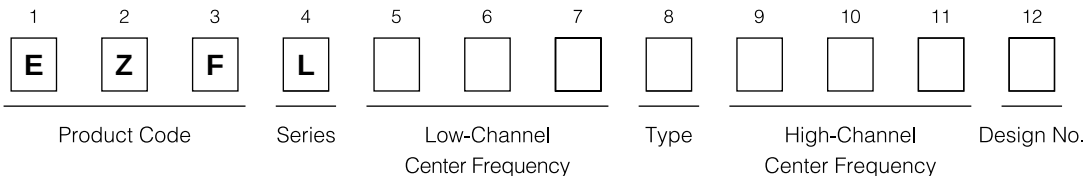
■ Features

- Miniature sized, Light weight
(6.7 × 5.0 × 1.8mm, 0.16 g)
- LPF built in
- Applicable to reflow soldering

■ Recommended Applications

- Dual band telephones (GSM/DCS)

■ Explanation of Part Numbers



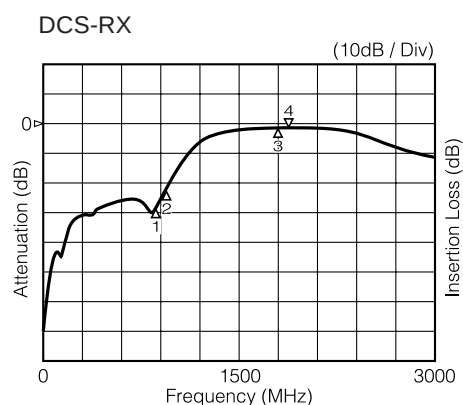
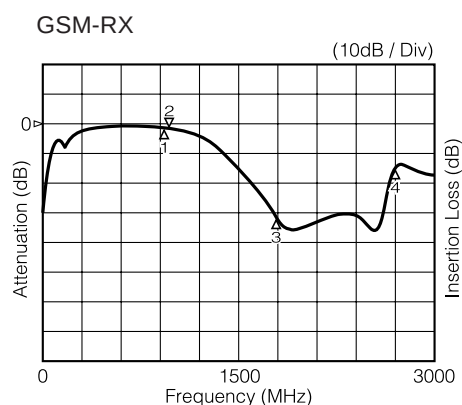
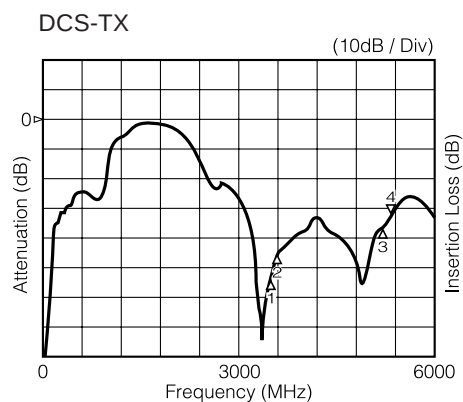
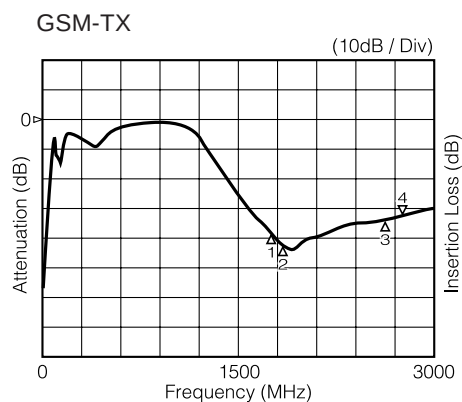
■ Ratings

Item	Ratings
Operating Temperature Range	−10 to 70 °C
Storage Temperature Range	−35 to 85 °C
Input/Output Impedance	50 Ω

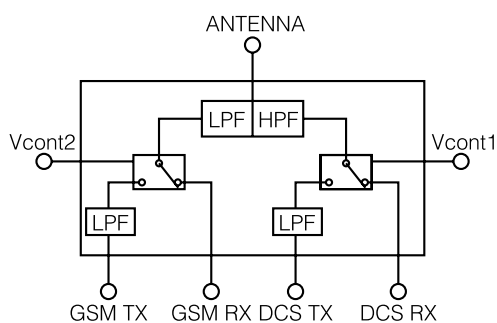
■ Characteristics

System	Part No.	CH	Center Frequency (MHz)	Passband Width (MHz)	Insertion loss (at 25°C) (dB)	Attenuation (TX→ANT) (dB)	Isolation (dB)	Input power (dBm)
GSM/DCS	EZFL897DH47□	GSM-TX	897.5 (ft1)	±17.5	1.3 max.	30 min (at 2 ft1)	20 min (TX→RX)	35
		GSM-RX	942.5	±17.5	1.1 max.	25 min (at 3 ft1)	20 min (TX→DCSRX)	10
		DCS-TX	1747.5 (ft2)	±37.5	1.4 max.	25 min (at 2 ft2)	20 min (TX→RX)	32
		DCS-RX	1842.5	±37.5	1.2 max.	25 min (at 3 ft2)	20 min (TX→GSMRX)	10

Typical Characteristics



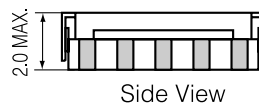
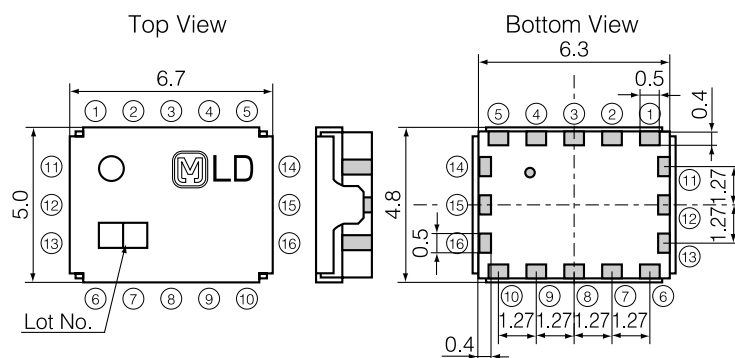
Block Diagram



Logic

Mode	Vcont1	Vcont2
GSM TX	L	H
GSM RX	L	L
DCS TX	H	L
DCS RX	L	L

Dimensions in mm (not to scale)



Tolerance : ± 0.3

Terminal No.	Terminal Name	Terminal No.	Terminal Name
①	GND	⑨	DCS-RX
②	ANT	⑩	GND
③	GND	⑪	GND
④	Vc1	⑫	GND
⑤	GND	⑬	GSM-TX
⑥	GND	⑭	Vc2
⑦	DCS-TX	⑮	GND
⑧	GND	⑯	GSM-RX