Antenna Duplexers (SMD)

Series: **Y, C**

Type: **M** (TX: 4 Poles, RX: 5 Poles)
R (TX: 3 Poles, RX: 4 Poles)
C (TX: 3 Poles, RX: 3 Poles)
L (TX: 1 Pole, RX: 2 Poles)

Surface Mounting Antenna Duplexers, "Series Y" and "Series C" consisting of two different dielectric filter units for a transmitter and a receiver, are designed for applications in portable cellular telephones.

■ Features (as an example of EZFC836R881G)
- Miniture type SMD (1.2 ml: 23 × 14 × 4 mm max.)
- Wide product range for analog/digital portable cellular telephones
- Designed for reflow soldering

■ Recommended Applications
- Portable Cellular telephones (AMPS, E · ETACS, GSM, NTT, N · TACS, PDC 800 MHz, PCN, PCS)

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	Z	F	C								

Product Code | Series | Low-Channel Center Frequency | Type | High-Channel Center Frequency | Design No.

■ Ratings

Item	Ratings
Operating Temperature Range	–30 to +80 °C
Storage Temperature Range	–40 to +85 °C
Rated Input Power	**TX**: 3 W **RX**: 1 W
Input/Output Impedance	50 Ω

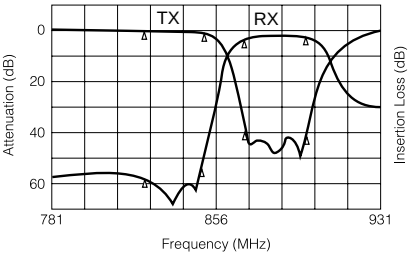
■ Characteristics

System	Part Number	Channel	Poles	Center Frequency (MHz)	Frequency Bandwidth (MHz)	Insertion Loss (dB)	Ripple (dB)	VSWR	Attenuation (dB)	Dim.
AMPS (USA)	EZFC836R881G	TX	3	836.5	±12.5	2.6	1.6	1.7	36 min. (869to894 MHz)	Fig. D
		RX	4	881.5	±12.5	2.8	1.3	1.8	48 min. (869to894 MHz)	
E-TACS (UK)	EZFY888M933Y	TX	4	888.5	±16.5	3.8	3.2	2.0	37 min. (917to50 MHz)	Fig. E
		RX	5	933.5	±16.5	5.3	3.2	2.0	48 min. (872to905 MHz)	
GSM (Europe)	EZFC902C947C	TX	3	902.5	±12.5	2.0	1.3	1.8	30 min. (935to960 MHz)	Fig. C
		RX	3	947.5	±12.5	3.2	1.0	2.0	25 min. (890to915 MHz)	
NTT (Japan)	EZFC877R932B	TX	3	932.5	± 7.5	1.3	0.6	1.8	41 min. (870to885 MHz)	Fig. D
		RX	4	877.5	± 7.5	4.2	1.2	1.8	55 min. (925to940 MHz)	
N-TACS (Japan)	EZFC856R911A	TX	3	911.5	±13.5	2.5	1.4	1.8	40 min. (843to870 MHz)	Fig. D
		RX	4	856.6	±13.5	4.1	1.4	1.8	45 min. (898to925 MHz)	
PDC-800 (Japan)	EZFY820L950B	TX	1	950.0	±10.0	0.9	0.3	1.8	20 min. (810to830 MHz)	Fig. B
		RX	2	820.0	±10.0	2.1	0.5	1.8	30 min. (940to960 MHz)	
	EZFC818L948A	TX	1	948.0	± 8.0	0.6	0.3	1.8	15 min. (810to826 MHz)	Fig. A
		RX	2	818.0	± 8.0	1.8	0.8	1.8	30 min. (940to956 MHz)	

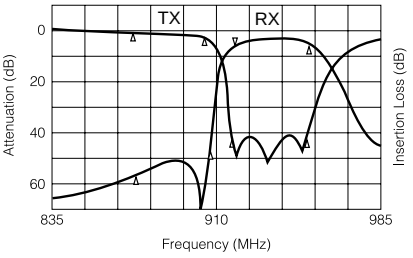
■ Typical Characteristics

TX, RX Frequency Characteristics

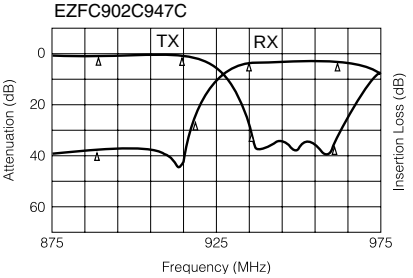
EZFC836R881G



EZFY888R933Y



EZFC902C947C



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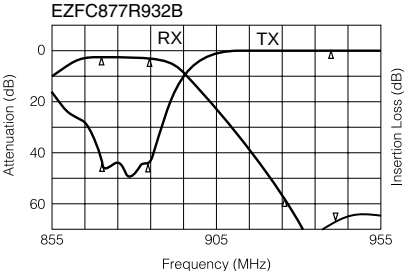
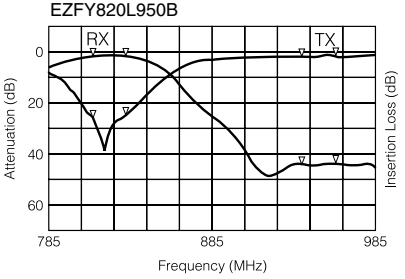


EZFY820L950B



■ Dimensions in mm (not to scale)

Fig. A

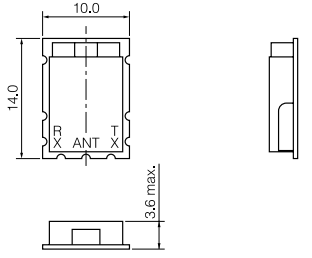


Fig. B

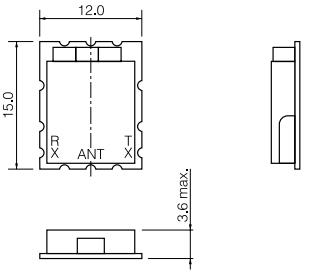


Fig. C

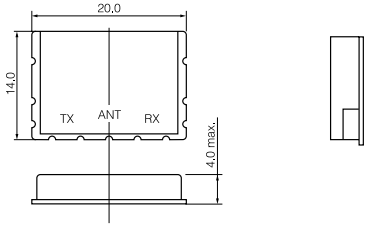


Fig. D

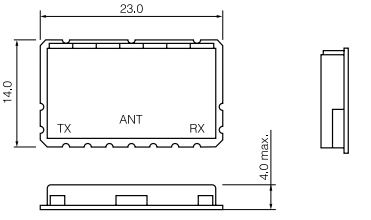
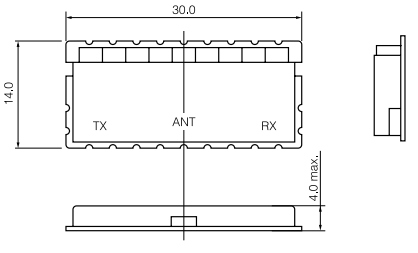


Fig. E



(Third angle projection)