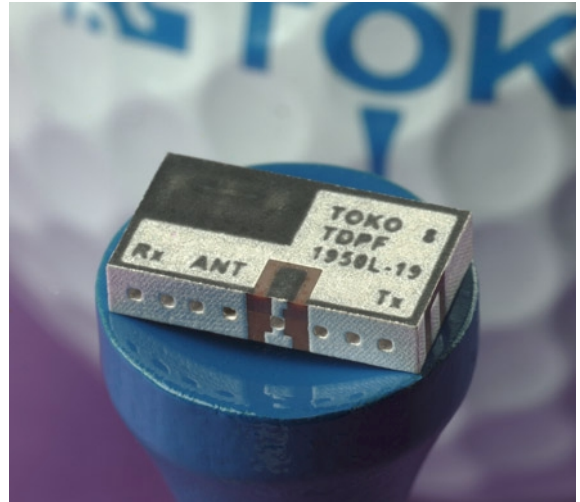


DESCRIPTION

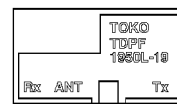
TOKO's TDPF-1950L-19 is a ceramic duplexer designed for a variety of W-CDMA applications. TOKO's proprietary ceramic material and filter design expertise provide for excellent performance and exceptional reliability in this economical and compact dielectric filter solution. Stable electrical characteristics are maintained over fluctuations in temperature and power. Standard devices are also available for PCS-CDMA, KR-PCS, and AMPS.



FEATURES

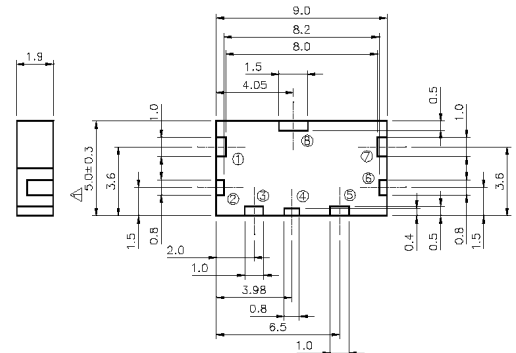
- Miniature footprint: 9.2 x 5.3 mm max.
- Low profile: 1.9 mm max.
- Low insertion loss
- Operating temperature: - 40°C to + 85°C
- Storage temperature: - 40°C to + 85°C
- Flow and reflow solderable

DIMENSIONS



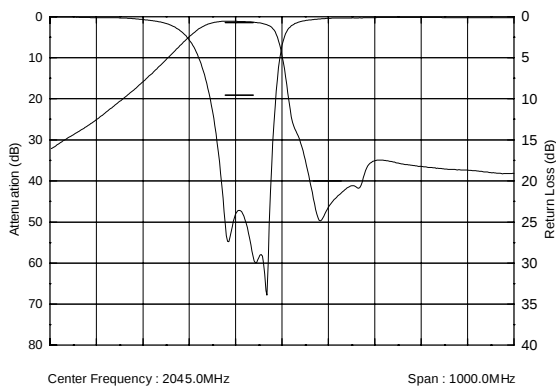
① GND	⑤ GND
② Tx	⑥ Rx
③ GND	⑦ GND
④ ANT	⑧ GND

tolerance: ± 0.15
unit : mm

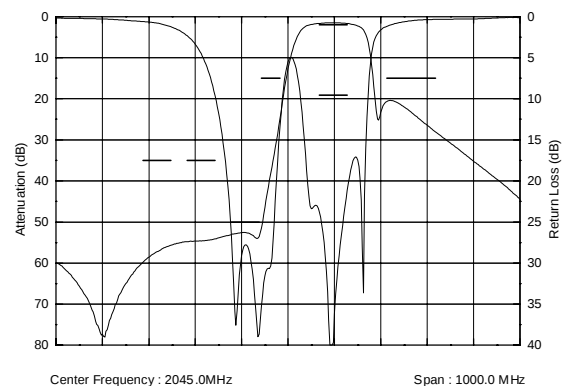


TYPICAL CHARACTERISTICS

TX to Antenna



Antenna to RX



ELECTRICAL SPECIFICATIONS

	TX to Antenna	Antenna to RX
Center Frequency (f_0)	1950.0 MHz	2140.0 MHz
Passband	$f_0 \pm 30.0$ MHz	$f_0 \pm 30.0$ MHz
Insertion Loss in Passband	1.3 dB max. ($25 \pm 5^\circ\text{C}$) 1.5 dB max. (-40°C to 85°C)	1.9 dB max. ($25 \pm 5^\circ\text{C}$) 2.1 dB max. (-40°C to 85°C)
Ripple in Passband	1.0 dB max.	1.0 dB max.
V.S.W.R. in Passband	2.0 max.	2.0 max.
Attenuation (absolute value) 2110 - 2170 MHz 3840 - 3960 MHz 5760 - 5940 MHz 1730 - 1790 MHz 1825 - 1885 MHz 1920 - 1980 MHz 1980 - 2025 MHz 2255 - 2360 MHz	40.0 dB min. 20.0 dB min. 7.0 dB min.	35.0 dB min. 35.0 dB min. 50.0 dB min. 15.0 dB min. 15.0 dB min.
Input Power	0.5 W	0.5 W
Isolation (absolute value) TX to RX 1920 - 1980 MHz 2110 - 2170 MHz	50.0 dB min. 40.0 dB min.	
Input/Output Impedance	50 Ω	50 Ω

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