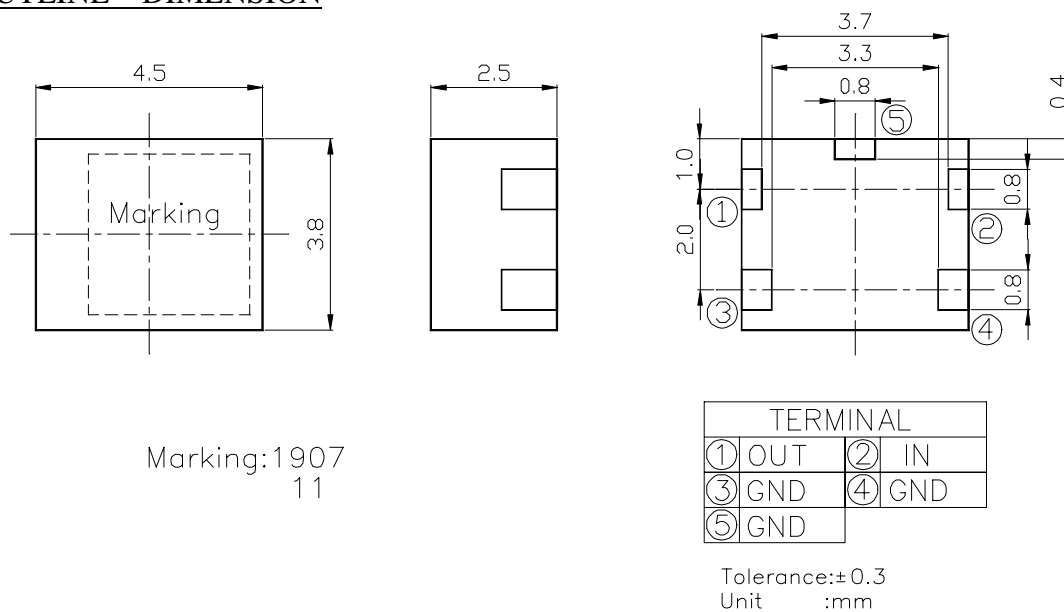


# SPECIFICATION OF DIELECTRIC FILTER

TOKO P/No: TDFM3A-1907E-11

## 1. OUTLINE DIMENSION



## 2. ELECTRICAL CHARACTERISTICS

SPECIFICATION		
Center Frequency( $F_o$ )	:	1907.0MHz
Passband Width	:	$F_o \pm 12\text{MHz}$
Input Output Impedance	:	50 ohm
Insertion Loss in Passband	:	1.6dB max.
Ripple in Passband	:	0.5dB max.
V.S.W.R in Passband	:	1.5 max.
Attenuation	:	35dB min. at 1398~1421MHz
	:	40dB min. at 1645~1670MHz
	:	20dB min. at 2142~2167MHz
	:	25dB min. at 3292~3340MHz
	:	25dB min. at 3790~3836MHz
	:	15dB min. at 4940~5009MHz
	:	15dB min. at 5685~5754MHz

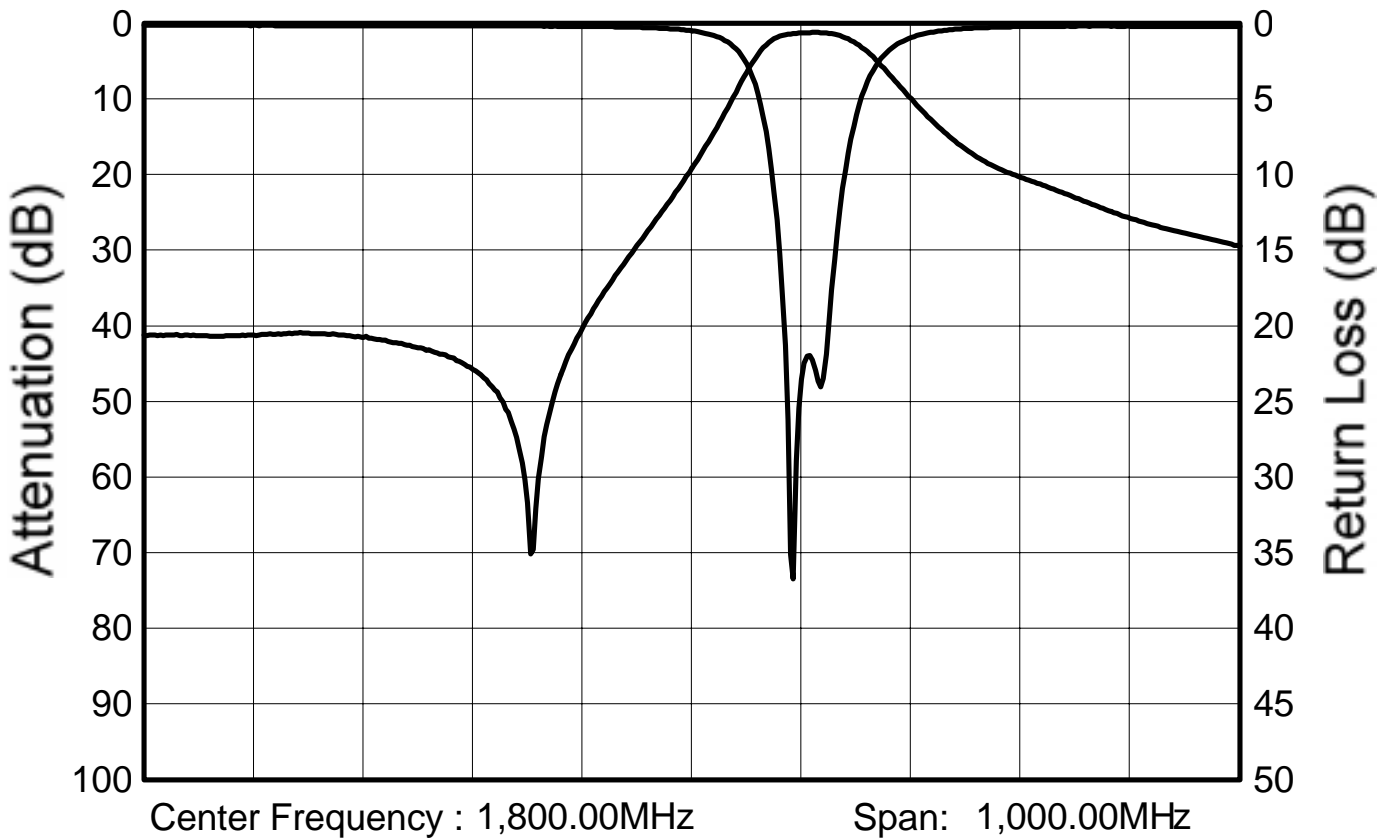
(All specifications are an absolute value.)



TOKO, INC.

# Test Data of Dielectric Filter

Toko No. : TDFM3A-1907E-11



Passband Insertion Loss	1.33dB
Passband Ripple	0.10dB
Passband V.S.W.R.	1.17
Attenuation at 1,398.00~1,421.00MHz at 1,645.00~1,670.00MHz at 2,142.00~2,167.00MHz	41.05dB 51.33dB 22.60dB

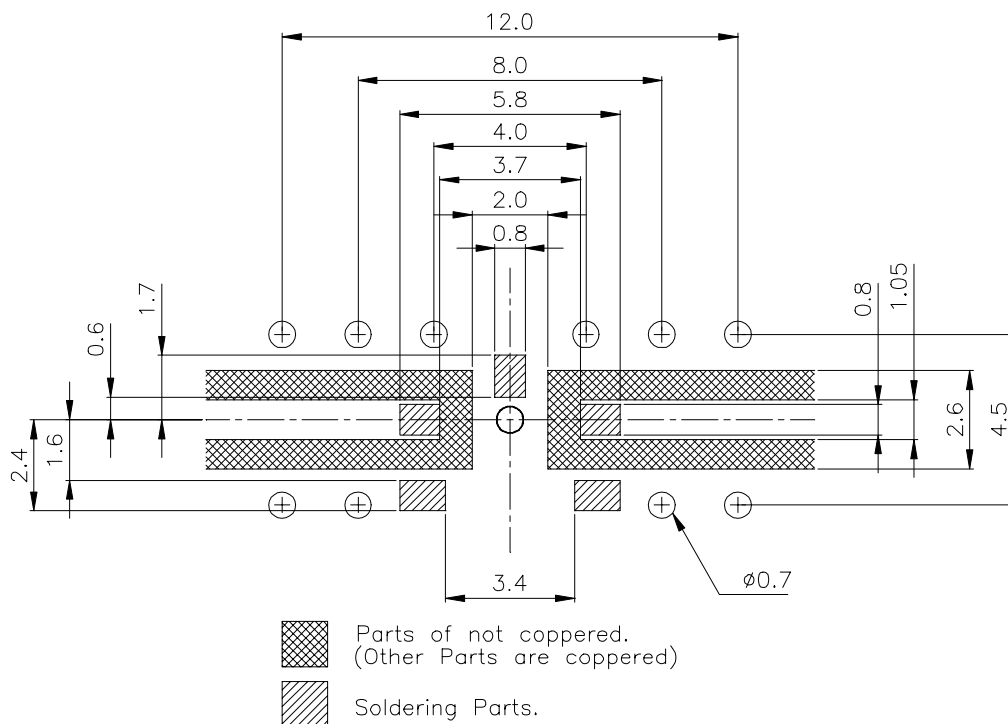
Date : 95.10.19

Instrument : WILTRON 37217A



Toko, INC.

## PCB Recommended Pattern For Dielectric Filter

TOKO P/N<sub>0</sub> : TDFM3A-1907E-11

Back plane is all coppered  
All holes are plated-through holes.

SUBSTRATE MATERIAL:

BT Resin CCL-H870    t=0.4mm.

CCl-H870's typical dielectric constant is 3.6 at 1GHz.

**CAUTION:**

All terminals of this filter are connected to GND.

Therefore, it must be used without DC voltage.