

## 315P Series



### Comblines

**Frequency Range from 400 Hz to 6 GHz**

**Application-Specific Designs**

SERIES NUMBER	NUMBER OF POLE PAIRS (ELEMENTS)	INSERTION LOSS at $f_0$ dB TYPICAL	BANDWIDTH SELECTION -1dBc % $f_0$	STOPBAND ATTENUATION dBc MINIMUM	
				FREQUENCY 1	FREQUENCY 2
CENTER FREQUENCY – 400 Hz to 6 GHz – specify any $f_0$ within that range					
315P	5 (10)	1.8 - 1.0	1.5	-50	0.937 x $f_0$ 1.058 x $f_0$

Note: TTE's products are made in the USA. Application-specific designs are made to order. Typical delivery is 2 weeks. Expedited lead time of 3-5 days is available on many products.

**For RoHS compliant, add "R" to part number. Example: 315PR-915M**

**TTE designates a component RoHS-compliant by adding "R" (RoHS) within the part number.**

**These RoHS components meet the  $\leq 0.1\%$  lead requirement and they are compatible with 260°C soldering processes.**

#### NOTES:

- Operating Temperature Range: 0°C to +70°C
- Number of Pole Pairs (Elements): 5 (10)
- VSWR at  $f_0$ : 1.5:1 Typical
- Input Power: 1 W, consult factory for options
- Case Type: Please contact factory
- Case Options: SMA female connectors (exclusively)
- Normalized Response: Refer to **Graphs**
- Product Info: Refer to **315P Series**

#### TERMINATIONS:

50  $\Omega$       400 Hz - 6 GHz

#### STOPBAND FREQUENCY CALCULATIONS:

Using part number 315P-915M and the series information above, the stopband specification is listed as -50dBc minimum at 0.937 x  $f_0$  and 1.058 x  $f_0$ . Thus, the -50dBc frequencies are at 857.35 MHz (0.937 x 915 MHz) and at 968.07 MHz (1.058 x 915 MHz), respectively.

#### PART NUMBER DERIVATION:

315P -915M  
1      2

1) Series, 315P (which has 5 pole pairs)

2) The Center Frequency,  $f_0$

1.5%  $f_0$  bandwidth is the only option.

SMA female connectors are the only option.

**These cases are in stock so typical delivery time for this series is 2-3 weeks.**