

## Fixed Attenuator Chip

- ◆ DC to 18 GHz
- ◆ 10 dB
- ◆ 200mW

### Features

- Thin film
- High attenuation accuracy
- Small VSWR
- Ceramic chip: 99% alumina
- Laser trimmed
- Low cost-high performance

### Model No. Description

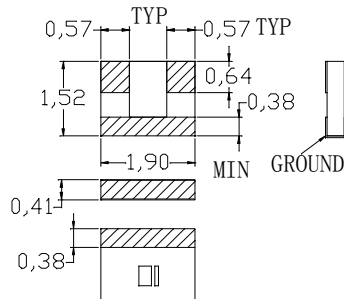
**FACXXXXX**

- ◆ **X** - Soldering method A or B
- ◆ **XX** - attenuation: \*\*dB.
- ◆ **XX** - frequency range 06: DC to 6GHz  
10: DC to 10GHz  
12: DC to 12.4GHz  
18: DC to 18GHz  
26: DC to 26.5GHz.

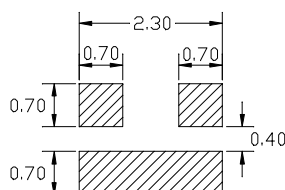
Soldering method A: The gold terminals in this series are just designed to use wire-bonding application.

Soldering method B: The gold terminals in this series are just designed to use lead free reflow application.

### Package Outlines



### Recommended Layout



Note: all dimensions shown in mm

### Specifications

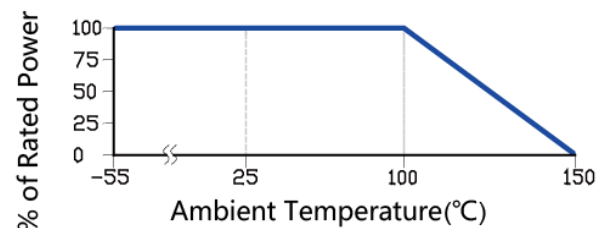
Frequency Range	DC to 18 GHz
Attenuation	10 dB
Attenuation Accuracy (Typical.)	±0.5 dB DC to 4 GHz + 0.5 dB 4 to 8 GHz + 0.75 dB 8 to 12.4 GHz + 1.0 dB 12.4 to 18 GHz
Attenuation Stability	0.0001 dB/dB/°C
Nominal Impedance	50 Ohm
Rated Input Power	200mW
Operating Temperature	-55 °C to +150 °C

FREQ. RANGE (GHz)	VSWR(:1) Typical
DC to 4	1.05
4 to 8	1.20
8 to 12.4	1.25
12.4 to 18	1.40

### Material Specification

substrate	99% alumina
terminal	Gold over Tiw Gold thickness : 3 μ m
resistor	Tantalum nitride thin film

### Average Power Derating Curve



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For detailed performance specs & shopping online see Yantel web site : [www.yantel-corp.com](http://www.yantel-corp.com)