

Calculating Method of Yantel Temperature Coefficient Code(N value)

1. Select sample of 5 units from the lot. Measure and record the attenuation from DC~6GHz every 20°C over the temperature range -55°C ~+150°C
2. Calculate, using linear regression, the slope of curve.
3. Calculate temperature coefficient code using the following formula:
Temperature Coefficient Code(N value) = Slope/Attenuation@25°C
4. Notes: For example 4N9, when temperature changes by 1°C, the attenuation variation equals 4dB × 0.009(temperature coefficient code) × 1°C=0.036dB.
When temperature changes by 100°C, the attenuation variation equals 4dB × 0.009 × 100 °C=3.6dB.