EPSON – TIMING DEVICES







Epson Microdevices History





Synchronization across segments





Big Things in Small Packages







Epson Timing Device Manufacturing Plants





Industry's Most Complete Product Line





Networking TCXO Family – Key Advantages

	TG7050CKN	TG551xCA	TG5032CGN
Frequency/temperature (ppb)	+/-100	+/-280	+/-100
Phase noise (dBc/Hz) f0 = 19.2 MHz	-145 @ 1kHz	-145 @ 1kHz	-140 @ 1kHz
Size (mm)	7.0 x 5.0	7.0 x 5.0	5.0 x 3.2
Operating temperature range (°C)	-40 to +105	-40 to +105	-40 to +85
Double seal technology	\checkmark	\checkmark	\checkmark



EPSON Advantage – DoubleSeal™



Features

- IC & crystal in close contact causes stronger thermal coupling
- Second seal provides isolation from external conditions

Advantages

- Reduction of temperature
 difference between IC and XTAL
- Immune to airflow degradation

Applications

 SyncE / 1588 wander masks requirements can be met with EPSON TCXO under real-world environmental conditions



TG7050CKN









ß



TG5032CGN





1.7x10⁻¹⁰







TG-551xCA











Low Jitter Differential SPXOs

	SG3225*EN	SG2520*GN	SG2520*HN
Jitter f0 = 156.25MHz	50fs	38fs	38fs
Frequency Stability	±50ppm	±50ppm	±20ppm
Package Size	3.2x2.5mm	2.5x2.0mm	2.5x2.0mm
Frequency	25 to 500MHz	25 to 500MHz	25 to 500MHz
Supply Voltage	2.5V 3.3V	2.5V 3.3V	1.8V 2.5V 3.3V
Operating temperature	-40 to 85C -40 to 105C	-40 to 85C -40 to 105C	-40 to 85C -40 to 105C



Thank you!



