



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

Dielectric Resonator Oscillator (DRO) PMI Model No. PIA-10G-CD-1



PMI Model No. PIA-10G-CD-1 is a 10GHz Integrated, Dielectric Resonator (DRO) Module with three outputs, each having a 0 to 360 degree analog controlled, variable phase shifter and 0 to 10dB analog controlled, variable output control capability on each of the outputs. This model provides a low harmonic output of -50dBc typical and an output power level of +19dBm typical. This DRO operates on +/-15VDC and is supplied in a compact package measuring 6.25" x 2.5" x 1.0".

Other frequency ranges are available.

Specifications:

Frequency Output	10GHz
Phase Shift	0 to 360 Degrees Typical
Phase Shift Control	
Analog Voltage	0 to +13VDC
Absolute Maximum	0 to +14VDC
Output Power	19dBm Typical
Output Power Adjust	0 to 10dB Typical
Output Power Control	
Analog Voltage	-1.0 to -4.5VDC
Absolute Maximum	0 to -5VDC
Harmonics	-50dBc Typical
Sync Input	100MHz
Sync Input Power	0dBm \pm 3dB
Sync Input Phase Noise	-155dBc/Hz @ 10kHz Offset
Sync Input Frequency Stability	\pm 3 PPM
Sync Input Connector	SMA
Output Connectors	SMA
Power / Control	15 Pin Micro-D Male
Size	6.25" x 2.5" x 1.0"
Finish	Painted Gray



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