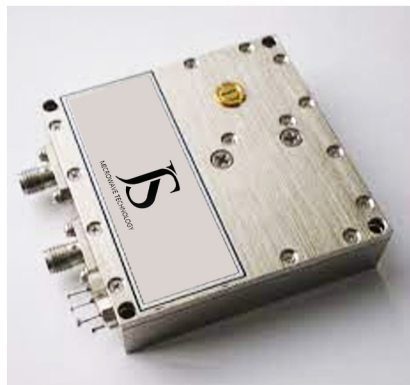


FEATURE

- Wide Operating Temperature Range
- Temp: -40 to +80°C Standard
- Ultra Low Phase-Noise
- Small Size, Low Power Consumption
- Low Cost, Low Profile

APPLICATION

- Radar System
- Electronic warfare
- Communication system
- Test equipment



DESCRIPTION:

JS MICROWAVE PDRO, Phase Locked Dielectric Resonator Oscillators, have been designed for use in Commercial and Military communication systems where demanding high performance, high reliability and cost are critical. The series PDRO take advantage of the small size, low phase-noise and high efficiency offered by fundamental GaAs MESFET and BJT DROs when they are phase-locked to an external crystal oscillator in the 50 MHz to 300 MHz range. Features such as ultra-low- phase noise, high power, small size and low cost make PDRO product line the best value on the market today for your Commercial or Military applications.

SPECIFICATIONS:(@+25

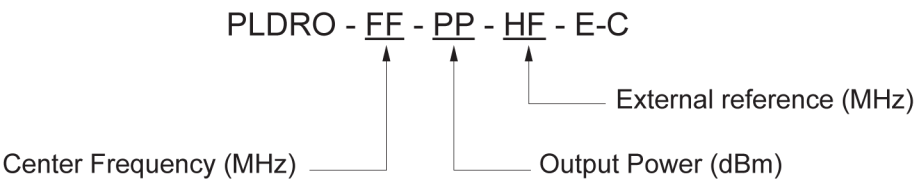
Parameter	External Reference
Typical Performance Specifications	
Output Frequency Range	3 GHz to 26.5 GHz
Output Power	+15 dBm (Type)
Power Variation	±2 dBm
Output Impedance	50Ω
Load VSWR	1.5:1
Supply Voltage*	+12 ---- +15 VDC
Current(Type)	280 mA
Spurious	-80 dBc
Harmonics	-20 dBc
Phase Noise	See Table
Alarm	TTL High in Lock
External Reference Frequency	50MHz to 300MHz
Input Power Level	0dBm ±3dBmm
Frequency Stability	Same as Reference
Connections	SMA(F)
RF Output Reference	SMA(F)
Input	N/A
Reference onitor	Feed thru
Alarm	Feed thru
Supply Voltage	Solder Lug
Ground	N/A
Operating Temperature	-40 to +80°C

Frequency Offset from Carrier (@Hz)	Phase Noise (dBc/Hz)@5 GHz	Phase Noise (dBc/Hz)@10 GHz	Phase Noise (dBc/Hz)@14 GHz	Phase Noise (dBc/Hz)@25.4GHz
Typical Phase Noise For External Reference				
100	-96	-90	-87	-75
1K	-119	-113	-110	-98
10K	-125	-120	-114	-104
100K	-128	-123	-119	-107
1M	-135	-128	-130	-118
10M	-145	-140	-140	-135

Note: Dual Loop consisting of PLDRO driven by PLXO with 5 or 10 MHz external reference is available and case type: 2.25x2.25x1.33.

HOW TO ORDER

Specify Part Number



Example: To order a 12GHz PLDRO with output power of 15dBm, external reference of 100MHz specify PLDRO-12000-15-100E-C

OUTLINE (mm)

