

PN / UPN Series Internal Reference, Hi-Rel, COTS

PRODUCT FEATURES

- Commercial (PN Series) or high-rel (UPN Series)
- Fast switching available

GENERAL CHARACTERISTICS

- Frequency: 20 MHz - 10 GHz **New!**
- Bandwidth: Fixed, to > 50%
- Phase Noise (Fout=3 GHz): <-90 dBc/Hz @ 10 KHz
- SMT Package: 0.90" x 0.90" x 0.15"
(22.9 x 22.9 x 3.8)mm



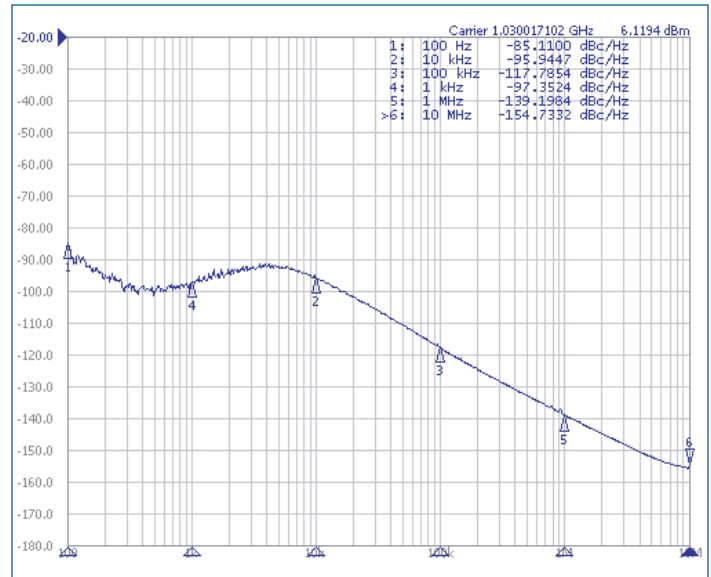
Custom Designs Available

Typical Performance for Select Units

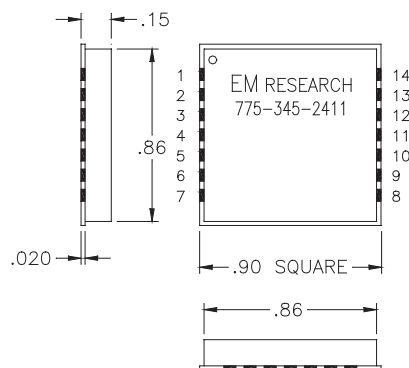
*Model #	Freq. (MHz)	Step Size (KHz)	Power Out (dBm)	Harmonics (dBc)	Phase Noise (dBc/Hz)		Spurs (dBc)	Voltage (Vdc)	Supply Current (mA)
					10 KHz	100KHz			
PN-100-XX	100	na	+7	-15	-105	-120	-60	+5	50
PN-380-XX	380	na	+6	-15	-110	-120	-65	+3.3	45
PN-1000-XX	1000	na	+10	-15	-100	-120	-60	+5	50
PN-1280-XX	1280	na	+3	-15	-100	-120	-60	+5	45
PN-1553-XX	1553.5	na	+13	-20	-95	-115	-60	+5	95
PN-3660-XX	3660	na	+10	-15	-85	-105	-60	+5	85
PN-4000-XX	3800-4000	1000	+7	-20	-90	-110	-60	+5	45
PN-4600-XX	4600	na	+3	-20	-75	-95	-60	+5	45
UPN-1010-XX	990-1010	2500	+7	-10	-102	-123	-65	+12	40
UPN-1150-XX	1030-1150	1000	+7	-15	-90	-95	-45	+5	40
UPN-3000-XX	2000-3000	1250	+7	-12	-82	-102	-65	+12	65
UPN-3800-XX	3800	na	+0	-15	-85	-100	-60	+3.3	35
UPN-4000-XX	3000-4000	2500	+7	-12	-80	-100	-65	+12	55
UPN-4050-XX	2950-4050	10000	+7	-12	-82	-85	-60	+12	55
UPN-5050-XX	3950-5050	10000	+7	-12	-80	-80	-65	+12	55
UPN-6000-XX	6000	na	+7	-20	-85	-105	-60	+5	85

*Custom frequencies available. All specifications are typical unless otherwise specified and subject to change without notice.

Phase Noise



Package



PIN OUT

PIN	OUT
1	REF IN
2	ENABLE
3	DATA
4	CLOCK
5	GND
6	GND
7	GND
8	VCC-A
9	GND
10	RF OUT
11	GND
12	VCC-D
13	GND
14	LOCK

Note: All dimensions are in inches, unless otherwise specified

*Drawing not to scale