NAN-F SERIES

FEATURES

- Stable and reliable in performances
- Compact size
- RoHS compliant

APPLICATIONS

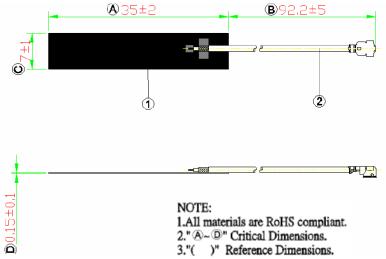
- ISM 868 Band
- Smart meters
- Wireless alarm and security system
- Industrial monitoring and control
- IOT applications

SPECIFICATIONS

Electrical				
Frequency Range	863 ~ 870 MHz			
Center Frequency	868 MHz			
Polarization	Linear			
Peak Gain	1.9 dBi (typ.)			
V.S.W.R	2.0 Max			
Efficiency	61.1% (typ.)			
Impedance	50Ω			
Dimensions (mm):				
Body Length (A)	35 ± 2.0			
Width (C)	7.0 ± 1.0			
Thickness (D)	0.15 ± 0.1			
Cable Length	100			
Cable Type	RF1.13			
Connector Type	IPEX			

<u>NAN-F</u>	<u>86</u>	<u>58 S</u>	<u>B</u> <u>A</u>	<u>}</u>	<u> 10 x 10 </u>	<u>o</u> <u>A</u> <u>F</u>		
						F = RoHS compliant		
						A = RF1.13 Cable		
						→100 = Cable length in mm		
						IPEX Connector		
						sion Code (See page 5)		
	SB = Single Band							
		→ 868	= Co	ente	r Fred	quency		
⊾NAN	I-F	= Seri	es					

ltem	Name	Material	Color
1	NAN-F_FPC	PI	Black
2	I-PEX & RF1.13	FEP	Gray

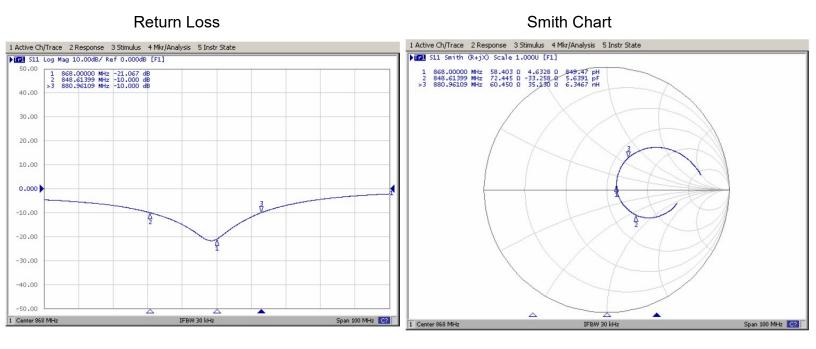






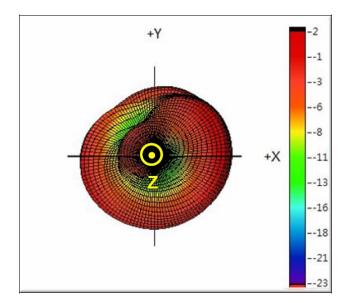
RoHS Compliant includes all homogeneous materials (see part numbering system for details)

RETURN LOSS AND SMITH CHART

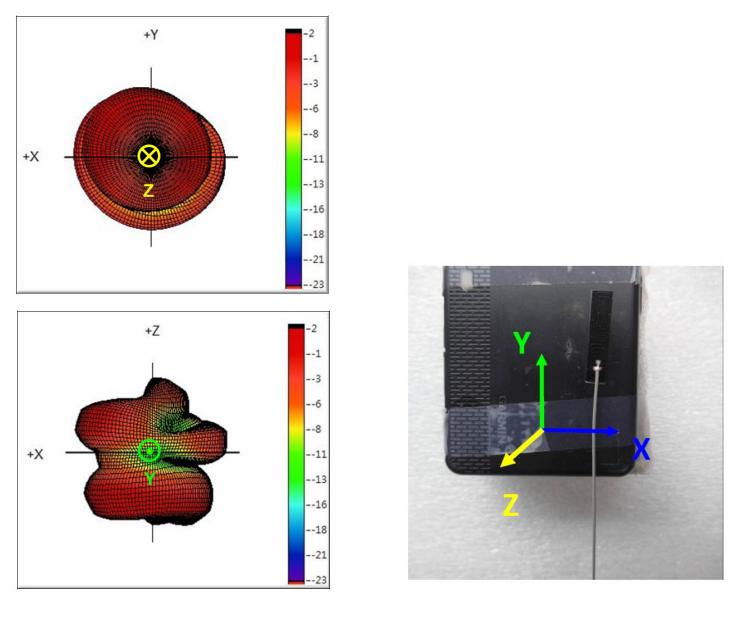


RADIATION PATTERNS

3D Gain Patterns @ 868 MHz





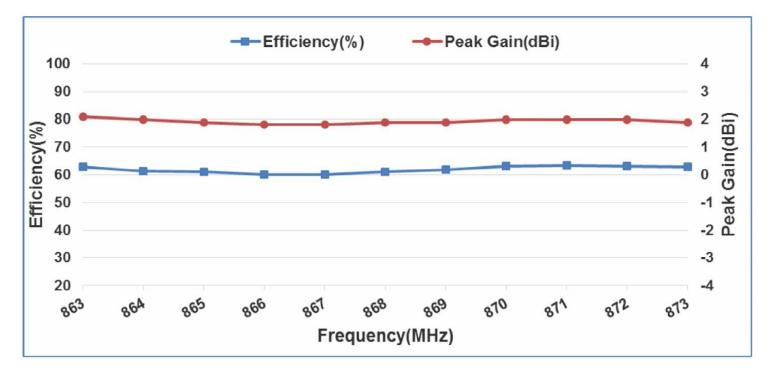


EFFICIENCY TABLE

Frequency(MHz)	863	864	865	866	867	8 6 8	869	870	871	872	873
Efficiency(dB)	-2.0	-2.1	-2.2	-2.2	-2.2	-2.1	-2.1	-2.0	-2.0	-2.0	-2.0
Efficiency (%)	62.8	61.4	60.9	60.1	60.1	61.1	61.9	63.1	63.4	63.1	62.7
Peak Gain (dBi)	2.1	2.0	1.9	1.8	1.8	1.9	1.9	2.0	2.0	2.0	1.9



EFFICIENCY VS. FREQUENCY





Version History and Status

Version	Date Issued	Details	Status
Α	Sept 29 th , 2021	Initial Release	Supported

Please reach out to NIC for any customization requests and other inquiries:
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- . Compliance Support: rohs@niccomp.com

