



SX1276RF1IAS - BOM

Version e266V02a - 868MHz on RF_HF and 169MHz on RF_LF

SCH # e266V02a PCB # e266V02a

RefDes	MPN	Geom	Value	Qty	Description	Manufacturer
					IC	
U1	SX1276IMLTRT	TQFN-28 6x6mm	SX1276	1	137MHz to 1020MHz Low Power Long Range Transceiver	Semtech
U2	PE4259	SC-70	-	1	PE4259 - 10MHz to 3GHz SPDT RF Switch	Peregrine Semi
U3	24AA128-I/MF	VDFN-8	-	1	128k I2C CMOS Serial EEPROM (not mandatory for RF design)	Microchip
U4	CRCW06030000Z0EA	0603	0R	1	Thick Film Resistor ±5%, 1/10W	Vishay/Dale
U5	PE4259	SC-70	-	1	PE4259 - 10MHz to 3GHz SPDT RF Switch	Peregrine Semi
	000000000000000000000000000000000000000				Resistors	1
R2	CRCW04021K00JNED	0402	1k	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale
R4	EXB-N8V101JX	EXB28V	100R	1	SMD Resistor Array Resistors (4x), ±5%, 31mW	Panasonic - ECG
R5	EXB-N8V101JX	EXB28V	100R	1	SMD Resistor Array Resistors (4x), ±5%, 31mW	Panasonic - ECG
R6	CRCW04020000Z0ED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale
R9	CRCW04020000Z0ED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale
R10	CRCW04024K70JNED EXB-N8V101JX	0402 EXB28V	4.7k 100R	1	Thick Film Resistor ±5%, 1/16W SMD Resistor Array Resistors (4x), ±5%, 31mW	Vishay/Dale
R13 R14	CRCW0402100RJNED	0402	100R	1		Panasonic - ECG Vishay/Dale
R15	CRCW04021K00JNED	0402	160K	1	Thick Film Resistor ±5%, 1/16W Thick Film Resistor ±5%, 1/16W	Vishay/Dale Vishay/Dale
R16	CRCW04021R003NED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale Vishay/Dale
R19	CRCW04020000Z0ED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale Vishay/Dale
R21	CRCW04020000Z0ED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale Vishay/Dale
R22	CRCW04020000Z0ED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale Vishay/Dale
R24	CRCW04020000Z0ED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale Vishay/Dale
F1	MMZ1005Y400C	0402	40R @100MHz	1	Ferrite beads MMZ Series - 40R @100MHz	TDK
	WIWE 100314000	0402	4010 @ 1001VII 12		apacitors	IDIO
C1	GRM155R71C104KA88D	0402	100nF	1	Multilayer ceramic capacitors X7R ±10%, 16V	Murata
C2	GRM155R71H102JA01D	0402	1nF	1	Multilayer ceramic capacitors X7R ±5%, 50V	Murata
C3	GRM155R71C104KA88D	0402	100nF	1	Multilayer ceramic capacitors X7R ±10%, 16V	Murata
C4	GRM155R71C104KA88D	0402	100nF	1	Multilayer ceramic capacitors X7R ±10%, 16V	Murata
C5	GRM155R71C104KA88D	0402	100nF	1	Multilayer ceramic capacitors X7R ±10%, 16V	Murata
C6	GRM155R71C104KA88D	0402	100nF	1	Multilayer ceramic capacitors X7R ±10%, 16V Multilayer ceramic capacitors X7R ±10%, 16V	Murata
C7	GRM1555C1H221JA01D	0402	220pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C8	GRM1555C1H470JZ01D	0402	47pF	1	Multilayer ceramic capacitors COG ±5%, 50V Multilayer ceramic capacitors COG ±5%, 50V	Murata
C9	GRM1555C1H330JZ01D	0402	33pF	1	Multilayer ceramic capacitors CoG ±3.76, 50V Multilayer ceramic capacitors CoG ±0.25pF, 50V	Murata
C10	GRM1555C1H1R5CZ01D	0402	1.5pF	1	Multilayer ceramic capacitors CoG ±0.25pF, 50V Multilayer ceramic capacitors CoG ±0.25pF, 50V	Murata
C10	GRM1555C1H4R7CZ01D	0402	4.7pF	1	Multilayer ceramic capacitors COG ±0.25pF, 50V Multilayer ceramic capacitors COG ±0.25pF, 50V	Murata
C12	GRM1555C1H1R2CZ01D	0402	4.7pF 1.2pF	1	Multilayer ceramic capacitors CoG ±0.25pF, 50V Multilayer ceramic capacitors CoG ±0.25pF, 50V	Murata
C12	GRM1555C1H1R8CZ01D	0402	1.8pF	1	Multilayer ceramic capacitors CoG ±0.25pF, 50V Multilayer ceramic capacitors CoG ±0.25pF, 50V	Murata
C15	GRM1555C1H3R3CZ01D	0402	3.3pF	1	Multilayer ceramic capacitors CoG ±0.25pF, 50V	Murata
C16		0402	3.3pr 47pF			
	GRM1555C1H470JZ01D			1	Multilayer ceramic capacitors COG ±5%, 50V	Murata
C17	GRM1555C1H470JZ01D	0402	47pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C18	GRM1555C1H470JZ01D	0402	47pF	1	Multilayer ceramic capacitors COG ±5%, 50V	Murata
C21	GRM155R71C104KA88D	0402	100nF	1	Multilayer ceramic capacitors X7R ±10%, 16V	Murata
C22	GRM155R71H102JA01D	0402	1nF	1	Multilayer ceramic capacitors X7R ±5%, 50V	Murata
C23	GRM21BR61A106KE19L	0805	10uF	1	Multilayer ceramic capacitors X5R ±10%, 10V	Murata
C24	GRM21BR61A106KE19L	0805	10uF	1	Multilayer ceramic capacitors X5R ±10%, 10V	Murata
C26	GRM1555C1H470JZ01D	0402	47pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C27	GRM155R71C104KA88D	0402	100nF	1	Multilayer ceramic capacitors X7R ±10%, 16V	Murata
C28	GRM1555C1H101JA01D	0402	100pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C29	GRM1555C1H270JA01D	0402	27pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C30	GRM1555C1H470JZ01D	0402	47pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C31	GRM1555C1H4R7CZ01D	0402	4.7pF	1	Multilayer ceramic capacitors C0G ±0.25pF, 50V	Murata
C32	GRM1555C1H470JZ01D	0402	47pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C34	GRM1555C1H270JA01D	0402	27pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C35	GRM155R71E103KA01D	0402	10nF	1	Multilayer ceramic capacitors X7R ±10%, 25V	Murata
C36	GRM1555C1H120JZ01D	0402	12pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C37	LQW15ANR10J00D	0402	100nH	1	Wirewound Inductor ±5%	Murata
C38	GRM155R71H102JA01D	0402	1nF	1	Multilayer ceramic capacitors X7R ±5%, 50V	Murata
C39	GRM155R71H102JA01D	0402	1nF	1	Multilayer ceramic capacitors X7R ±5%, 50V	Murata
C42	GRM155R71H102JA01D	0402	1nF	1	Multilayer ceramic capacitors X7R ±5%, 50V	Murata
C43	GRM155R71H102JA01D	0402	1nF	1	Multilayer ceramic capacitors X7R ±5%, 50V	Murata
C44	GRM188R61A105KA61D	0603	1uF	1	Multilayer ceramic capacitors X5R ±10%, 10V	Murata
C45	GRM155R71H102JA01D	0402	1nF	1	Multilayer ceramic capacitors X7R ±5%, 50V	Murata
				Induct	ors & Ferrites	
L1	LQW15ANR10J00D	0402	100nH	1	Wirewound Inductor ±5%	Murata
L2	LQW15AN33NJ00D	0402	33nH	1	Wirewound Inductor ±5%	Murata
L3	LQG15HS10NJ02D	0402	10nH	1	Multilayer Inductor ±5%	Murata
L4	LQG15HS6N2S02D	0402	6.2nH	1	Multilayer Inductor ±0.3nH	Murata
L5	LQG15HS10NJ02D	0402	10nH	1	Multilayer Inductor ±5%	Murata
L6	CRCW04020000Z0ED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale
L7	CRCW04020000Z0ED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale
L8	LQW15AN39NJ00D	0402	39nH	1	Wirewound Inductor ±5%	Murata
L9	LQW15AN39NJ00D	0402	39nH	1	Wirewound Inductor ±5%	Murata
L10	LQW15AN39NJ00D	0402	39nH	1	Wirewound Inductor ±5%	Murata
L11	LQW15AN82NJ00D	0402	82nH	1	Wirewound Inductor ±5%	Murata
L12	GRM1555C1H5R6CA01D	0402	5.6pF	1	Multilayer ceramic capacitors C0G ±0.25pF, 50V	Murata
L13	CRCW04020000Z0ED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale
				Crvs	stal or TCXO	
Q1	IT3205CE	3.2x2.5mm	IT3205CE	1	32.000MHz TCXO - Rakon Reference: ITC3200C11; Tol. ±2.0ppm (populated) Rakon
or	END4263A	2.0x1.6mm	NT2016SA	0	32.000MHz TCXO - NDK Reference: END4263A; Tol. ±2.5ppm	NDK
-					others (or P/N equivalent)	
ANT_HF	142-0711-821	SMA End Launch	50 Ohms	1	SMA End launch jack receptacle for PCB mount	Emerson Network P
ANT LF	142-0711-821	SMA End Launch	50 Ohms	1	SMA End launch jack receptacle for PCB mount	Emerson Network P
SM12xx (20p)	68602-120HLF	Header 2x10	20 pins	1	20 Pins - Through hole dual row male connector, Bottom side	FCI
SM12xx (20p)	67997-114HLF	Header 2x7	14 pins	1	14 Pins - Through hole dual row male connector, Bottom side	FCI
VDD_RFS	826629-2	bridge 2p 2.54mm	2.54mm	1	Through hole vertical header single row - 2 positions	Tyco Electronics
	320020 2	2ago 2p 2.0711111		ional or	optional components	. you Electronics
			Auditi	- Jilui VI	ep.io.ia. componente	
-	M7566-05	Jumper 2.54mm	-	1	Red Jumper Socket 2.54mm on VDD_RFS	Harwin