

## RF Coupler BOM

Ref Des	Value	Description	Part Number	Mfg	PAD	Mouser or Vendor #	Qty
J1, J2	BNC	RF Connectors / Coaxial Connectors JACK RT-ANG BNC PCB	5414284-2	TE/AMP		571-5414284-2	2
		RF Connectors / Coaxial Connectors R/A PCB Skt White 50Ohm	1-1337543-0 414284-1	TE/AMP TE/AMP		571-1-1337543-0 BNC-149	All Electronics
		BNC RA JACK PCB STD bulkhead Hrdwr		Molex		538-73138-5033	
J3, J4 JP1, JP2 Shunt	SMA End Launch	RF Connectors / Coaxial Connectors PC END MT JCK GLD .062" BOARD THICK	142-0701-801 [No Hardware]	Johnson / Emmerson	End Launch SMA	530-142-0701-801	2 2 2
R1, R3	82 3W 5%	Metal Oxide Resistors RSS3 82 5%TR	MOS3CT631R820J	KOA Speer	0.75" Axial	660-MOS3CT631R820J	2
R2	91 1W 5%	Metal Oxide Resistors RSS2 91 5%TR	MOS2CT52R910J	KOA Speer	0.6" Axial	660-MOS2CT52R910J	1
R4, R6	430 2W 5%	Metal Oxide Resistors 2W 430 5%	MOS2CT52R431J	KOA Speer	0.6" Axial	660-MOS2CT52R431J	2
R5	12 1W 5%	Metal Oxide Resistors 2W 12 5%	MO2CT631R120J	KOA Speer	0.6" Axial	660-MO2CT631R120J	1
R7, R8 T1, T2 [25W] T1, T2 [250W] T1, T2 [>250W]	51 3W 5% FT50-43 1T:xxT #26 FT50A-61 1T:xxT #26 FT-82-61 1T:xxT #26	Metal Oxide Resistors RSS3 51 5%TR 3W 300ppm	MOS3CT631R510J	KOA Speer	0.75" Axial	660-MOS3CT631R510J  FT-50-43 FT-50A-61 FT-82-61	2 2 Kits & Parts Amidon Kits & Parts
PCB		2.01" x 2.11"		OSH Park		<a href="https://oshpark.com/shared_projects/9u4tr17X">https://oshpark.com/shared_projects/9u4tr17X</a>	\$21.10 / 3 pieces

### Ref: RF Coupler Alternate Design Example

J5, 6, 7, 8 JP3, 4	Ref Ref	See above See above					
R9, 11	430 2W 5%	Metal Oxide Resistors 2W 430 5%	MOS2CT52R431J	KOA Speer	0.6" Axial	660-MOS2CT52R431J	
R10	12 1W 5%	Metal Oxide Resistors 2W 12 5%	MO2CT631R120J	KOA Speer	0.6" Axial	660-MO2CT631R120J	
R12, 14	56 3W 5%	Metal Oxide Resistors RSS3 56 5%TR	MOS3CT631R560J	KOA Speer	0.75" Axial	660-MOS3CT631R560J	
R13	330 1W 5%	Metal Oxide Resistors RSS2 330 5%TR	MOS2CT52R331J	KOA Speer	0.6" Axial	660-MOS2CT52R331J	
R15, 16 T3, 4	51 3W 5% FT-82-61 1T:8T #26	Metal Oxide Resistors RSS3 51 5%TR 3W 300ppm	MOS3CT631R510J	KOA Speer	0.75" Axial	660-MOS3CT631R510J  FT-82-61	Kits & Parts