



mmic amplifiers

Part	Description	Freq (GHz)	Gain (dB)	Pout (dBm)	Eff (%)	NF (dB)	Control
VRFA0030-BD	Wideband MPA	2-20	14.5	24			8V, 150mA
VRFA0031-BD	Wideband positive gain slope MPA	2-20	15	24			8V, 150mA
VRFA0021-BD	Wideband MPA	DC-45	12	15.5			8V, 50mA
VRFA0006-BD	WLAN, Dual Amp	2.4/5	26.5/28	25			3.3V
VRFA0040-BD	5-12GHz LNA	5-12	25	15		<1.7	3.3V, 105mA
VRFA0035-BD	6-18GHz LNA	6-18	19	10		<2	3.3V, 75mA
VRFA0044-BD	C-Band 9W HPA	7.25-8.5	23	39.5	45		8V, 2A
VRFA0041V2-BD	C-Band 15W HPA	7.9-8.4	23	42	45		8V, 4.2A
VRFA0043V2-BD	X-Band HPA	8.5-11	21	39.5	45		8V, 2.7A
VRFA0026-BD	X-Band LNA	7-11	24.5	15		1.0	3V, 82mA
VRFA0026-QFN	X-Band LNA	7-11	24.5	15		1.2	3V, 82mA
VRFA0028-BD	10-16GHz LNA	10-16	21	14		1.1	3V, 70mA
VRFA0039V1-BD	Ka-Band 5W HPA	25-27	22	35	20		8V, 2.4A
VRFA0045V1-BD	Ka-Band Driver Amp	25.5-27	25	25			8V, 350mA
VRF250DV7-BD	E-Band Gain Block	71-76	17	17			4V
VRF250DV3-BD	E-Band Gain Block	81-86	22	19			4V, 60mA
VRF450DV4-BD	E-Band MPA	81-86	14	18.5			4V, 80mA
VRF850DV6-BD	E-Band HPA	81-86	14	23			4V, 160mA
VRF250DV2-BD	W-Band Gain Block	93-95	18	17			4V, 160mA
VRF450DV2-BD	W-Band MPA	93-95	12	21.5			4V, 80mA
VRF850DV2-BD	W-Band HPA	93-95	11	23.5			4V



mmic attenuators

Part	Description	Freq (GHz)	Loss (dB)	Range (dB)	Control (V)
VRFC0007-BD	4-Bit digital attenuator	DC-13	2.7	7.5	0/-5
VRFC0006-BD	6-Bit digital attenuator	DC-13	5.0	31.5	0/-5
VRFC0009-01-BD	Wideband switch attenuator	DC-20	1		0/-5
VRFC0009-02-BD	Wideband switch attenuator	DC-20	2		0/-5
VRFC0009-04-BD	Wideband switch attenuator	DC-20	4		0/-5
VRFC0009-16-BD	Wideband switch attenuator	DC-20	16		0/-5

mmic phase shifters

Part	Description	Freq (GHz)	Loss (dB)	Range (deg)	Control (V)
VRFC0008-BD	6-Bit digital phase shifter	2-4	7.5	360	0/-5
VRFC0003-BD	6-Bit digital phase shifter	8-13	6	360	0/-5
VRFC0011-5-BD	1-Bit phase shifter	2-6	0.7	5.625	0/-5
VRFC0011-22-BD	1-Bit phase shifter	2-6	1.4	22.5	0/-5
VRFC0010-45-BD	1-Bit phase shifter	8-15	1.1	45	0/-5
VRFC0010-90-BD	1-Bit phase shifter	8-15	1.4	90	0/-5
VRFC0010-180-BD	1-Bit phase shifter	8-15	1.6	180	0/-5

mmic switches

Part	Description	Freq (GHz)	Loss (dB)	Isolation (dB)	Control (V)
VRFS0008-BD	Wideband SPST switch	DC-20	0.6	48	0/-5
VRFS0002-BD	Wideband SPDT switch	DC-20	1.18	47	0/-5
VRFS0003-BD	Wideband SP4T switch	DC-20	2.2	52	0/-5