

GUERRILLA RF CROSSES / SUGGESTED REPLACEMENTS for AVAGO EOL LIST

1/19/2018

Avago MPN	Category	Guerrilla RF MPN	Notes
MGA-633P8	LNA	GRF2070/GRF2080	These DFN-8 packaged devices are the only parts for which we have a pin to pin, drop-in replacement
MGA-634P8	LNA	GRF2071/GRF2081	
MGA-635P8	LNA	GRF2072/GRF2073/GRF2082/GRF2083	
MGA-683P8	LNA	GRF2070/GRF2080	
MGA-684P8	LNA	GRF2071/GRF2081	

GUERRILLA RF SUGGESTED REPLACEMENTS

Avago MPN	Category	Guerrilla RF MPN	Notes
ABA-51563-BLKG	Si Gain Block	GRF3011/GRF2100	GRF3011: new InGaP HBT part; sampling now; prod. Q3 2018
ABA-52563-BLKG	Si Gain Block	GRF3011/GRF2373	GRF2373/GRF3011: new InGaP HBT parts; sampling now; prod. Q3 2018
ABA-53563-BLKG	Si Gain Block	GRF2013/GRF2373	GRF2373: new InGaP HBT part; sampling now; prod. Q3 2018
ABA-54563-BLKG	Si Gain Block	GRF2013/GRF2004	
ALM-2812-BLKG	Wi-Fi LNA module	GRF2100+GRF2101	
ALM-31122-BLKG	PA	GRF5109/GRF5115/GRF4105	GRF4105: new InGaP HBT part; sampling Q2; prod. Q4 2018
ALM-31222-BLKG	PA	GRF5110/GRF5115/GRF4105	GRF4105: new InGaP HBT part; sampling Q2; prod. Q4 2018
ALM-31322-BLKG	PA	GRF5511	
ALM-32120-BLKG	PA	GRF5115	
ALM-32220-BLKG	PA	GRF5115	
ALM-GA001-BLKG	LNA	GRF2100/GRF2201	
ALM-GA002-BLKG	LNA	GRF2100/GRF2201	
AT-30511-BLKG	Si transistor	GRF2100	
AT-30533-BLKG	Si transistor	GRF2100	
AT-31011-BLKG	Si transistor	GRF2373	GRF2373: new InGaP HBT part; sampling now; prod. Q3 2018
AT-31033-BLKG	Si transistor	GRF2373	GRF2373: new InGaP HBT part; sampling now; prod. Q3 2018
AT-32011-BLKG	Si transistor	GRF2373	GRF2373: new InGaP HBT part; sampling now; prod. Q3 2018
AT-32032-BLKG	Si transistor	GRF2373	GRF2373: new InGaP HBT part; sampling now; prod. Q3 2018
AT-32033-BLKG	Si transistor	GRF2373	GRF2373: new InGaP HBT part; sampling now; prod. Q3 2018
AT-32063-BLKG	Si transistor	GRF2373	GRF2373: new InGaP HBT part; sampling now; prod. Q3 2018
ATF-33143-BLKG	E-pHEMT transistor	GRF4002	
ATF-331M4-BLK	E-pHEMT transistor	GRF4002/GRF4003	
ATF-34143-BLKG	E-pHEMT transistor	GRF2070/GRF2080	
ATF-35143-BLKG	E-pHEMT transistor	GRF2201	
ATF-38143-BLKG	E-pHEMT transistor	GRF2100	
ATF-50189-BLK	E-pHEMT transistor	GRF5110	
ATF-501P8-BLK	E-pHEMT transistor	GRF5110	
ATF-511P8-BLK	E-pHEMT transistor	GRF5110	
ATF-52189-BLK	E-pHEMT transistor	GRF5110	
ATF-521P8-BLK	E-pHEMT transistor	GRF5110	
ATF-53189-BLK	E-pHEMT transistor	GRF4002	
ATF-531P8-BLK	E-pHEMT transistor	GRF4003/GRF2133	
ATF-54143-BLKG	E-pHEMT transistor	GRF4002	
ATF-541M4-BLK	E-pHEMT transistor	GRF4002	
ATF-55143-BLKG	E-pHEMT transistor	GRF4001	
ATF-551M4-BLK	E-pHEMT transistor	GRF4001	
ATF-58143-BLKG	E-pHEMT transistor	GRF4002	
AVT-51663-BLKG	HBT gainblock	GRF2013	
AVT-53663-BLKG	HBT gainblock	GRF2013	
AVT-54689-BLKG	HBT gainblock	GRF2013	
AVT-55689-BLKG	HBT gainblock	GRF2013	
MGA-13116-BLKG	3-stage LNA	GRF2133+GRF5109	
MGA-13216-BLKG	3-stage LNA	GRF2133+GRF5110	
MGA-13316-BLKG	3-stage LNA	GRF2073+GRF5110	
MGA-13516-BLKG	2-stage LNA	GRF2133	
MGA-14516-BLKG	2-stage LNA	GRF2133	
MGA-16216-BLKG	Dual LNA	GRF2078	GRF2078: new E/D pHEMT part; sampling Q2; prod. Q4 2018
MGA-16316-BLKG	Dual LNA	GRF2079	GRF2079: new E/D pHEMT part; sampling Q2; prod. Q4 2018
MGA-30116-BLKG	Driver Amp	GRF5109	
MGA-30216-BLKG	Driver Amp	GRF5110	
MGA-30489-BLKG	Driver Amp	GRF4003	
MGA-30689-BLKG	Driver Amp	GRF2014	
MGA-30789-BLKG	PA	GRF5511/GRF2505	
MGA-30889-BLKG	Driver Amp	GRF2012	

MGA-30989-BLKG	Driver Amp	GRF2505/GRF2012	
MGA-31189-BLKG	Gain Block	GRF2013/GRF2014/GRF4014	
MGA-31289-BLKG	Gain Block	GRF2014	
MGA-31389-BLKG	Gain Block	GRF2013	
MGA-31489-BLKG	Gain Block	GRF2013	
MGA-31589-BLKG	Driver Amp	GRF5109/GRF4005	
MGA-31689-BLKG	Driver Amp	GRF5511/GRF5110	
MGA-31716-BLKG	Gain Block	GRF2013	
MGA-31816-BLKG	LNA	GRF2105	
MGA-412P8-BLKG	PA	GRF5511	
MGA-425P8-BLK	PA	GRF2505/GRF4014	
MGA-52543-BLKG	LNA	GRF4002	
MGA-53543-BLKG	LNA	GRF4003	
MGA-53589-BLKG	LNA	GRF4002	
MGA-545P8-BLK	Driver Amp	GRF2505/GRF4014	
MGA-565P8-BLK	Buffer Amp	GRF2133	
MGA-61563-BLKG	LNA	GRF2373/GRF4001	GRF2373: new InGaP HBT part; sampling now; prod. Q3 2018
MGA-621P8-BLKG	LNA	GRF2070/GRF2080	
MGA-622P8-BLKG	LNA	GRF2071/GRF2081	
MGA-62563-BLKG	LNA	GRF4002	
MGA-631P8-BLKG	LNA	GRF2070/GRF2080	
MGA-632P8-BLKG	LNA	GRF2071/GRF2081	
MGA-633P8-BLKG	LNA	GRF2070/GRF2080	
MGA-634P8-BLKG	LNA	GRF2071/GRF2081	
MGA-635P8-BLKG	LNA	GRF2072/GRF2082	
MGA-636P8-BLKG	LNA	GRF5040	
MGA-637P8-BLKG	LNA	GRF5020	
MGA-638P8-BLKG	LNA	GRF4014	
MGA-64606-BLKG	LNA	GRF2140	
MGA-655T6-BLKG	LNA	GRF2140	
MGA-65606-BLKG	LNA	GRF2140	
MGA-665P8-BLK	LNA	GRF2501/GRF2101/GRF2201	
MGA-675T6-BLKG	LNA	GRF2101	
MGA-683P8-BLKG	LNA	GRF2070/GRF2080	
MGA-684P8-BLKG	LNA	GRF2071/GRF2081	
MGA-68563-BLKG	LNA	GRF4001	
MGA-685T6-BLKG	LNA	GRF4001	
MGA-71543-BLKG	LNA	GRF2140	
MGA-72543-BLKG	LNA	GRF2140/GRF2370	GRF2370: new InGaP HBT part; sampling now; prod. Q3 2018
MGA-725M4-BLK	LNA	GRF2140/GRF2370	GRF2370: new InGaP HBT part; sampling now; prod. Q3 2018
MGA-81563-BLKG	Gain Block	GRF2003/GRF3042	
MGA-82563-BLKG	Gain Block	GRF3044/GRF4001	
MGA-83563-BLKG	Gain Block	GRF2013/GRF2133	
MGA-85563-BLKG	Gain Block	GRF2201	
MGA-86563-BLKG	Gain Block	GRF2201	
MGA-87563-BLKG	Gain Block	GRF2100	

Comments:

- 1) Multiple GRF parts may be suitable as a replacement. To offer the best replacement part, it will be important to understand the application and how the Avago device was being used. At a minimum, we need to know frequency band of interest and biasing conditions (Vdd/Iddq).
- 2) GRF2100 and GRF2373 are similar parts (low current LNAs). GRF2100 will have better NF (EVB NF = 0.8dB vs 1.3dB) and GRF2373 will have better linearity (Typical OIP3 = 26dBm vs 19dBm).
- 3) All GRF5XXX series devices require matching.