

PHILIPS VDMOS RF-POWER TRANSISTORS

CROSS REFERENCE LIST PHILIPS VDMOS vs MOTOROLA TMOS TRANSISTORS

	Philips Type	Motorola Type	Operation	V (V)	f (MHz)	P _L (W)	G _p (dB)	η (%) (at P _L)	Package	Impedance data Input / Load	Comments	
UHF	BLF548		Class-B	28	500	150	>10	>50	SOT262A2	Avail.		
		MRF275G	Class-AB	28	500	150	>10	>50	375-04, STYLE 2	Avail.		
		MRF275L	Class-AB	28	500	100	8.8 typ	55 typ	333-04, STYLE 2	Avail.	Different Package	
		MRF177	Class-AB	28	400	100	12 typ	60 typ	744A-01, STYLE 1	Avail.	Different Package	
		MRF176GU	Class-AB	50	400	150	14 typ	50 typ	375-04, STYLE 2	Avail.	Different Supply Voltage	
		MRF175LU	Class-AB	28	400	100	10 typ	55 typ	333-04, STYLE 1	Avail.	Different Package	
		MRF175GU	Class-AB	28	400	150	12	55	375-04, STYLE 2	Avail.		
		BLF546		Class-B	28	500	80	>11	>50	SOT268A	Avail.	
			MRF166W	Class-AB	28	500	40	14, 17 typ	50, 60 typ	412-01, STYLE 1	Avail.	
		BLF544		Class-B	28	500	20	>11	>50	SOT171A	Avail.	
				Class-B	28	960	20	7 typ	50 typ			
			MRF166C	Class-AB	28	500	20	13.5	50	319-07, STYLE 3	Avail.	
		BLF542		Class-B	28	500	5	>13	>50	SOT171A	Avail.	
			MRF160	Class-AB	28	500	4	16	55 typ	249-06, STYLE 3	Avail.	Different Package
	BLF404		Class-AB	12.5	500	4	>10	>50	SOT409A	Avail.		
	BLF521		Class-B	12.5	500	2	>10	>50	SOT172D	Avail.		
		MRF158	Class-AB	28	500	2	16	55 typ	305A-01, STYLE 2	Avail.	Almost identical package , Different Supply Voltage	
VHF	BLF368		Class-AB	32	225	300	>12	>55	SOT262A1	Avail.		
			Class-AB	28	175	300	12	50	375-04, STYLE 2	Avail.	Different Supply Voltage	
			Class-AB	50	225	250	>14, 16 typ	>50, 55 typ				
			Class-B	50	108	300	>20	>60	SOT262A1	Avail.		
			Class-C	50	108	300	18 typ	80 typ				
			Class-AB	50	225	200	13 typ	55 typ	375-04, STYLE 2	Avail.		
			Class-AB	50	175	300	14	50	375-04, STYLE 2	Avail.		
		MRF176GV										
			MRF151G									
		BLF248		Class-AB	28	225	300	>10	>55	SOT262A1	Avail.	
			MRF175GV	Class-AB	28	225	200	14 typ	65 typ	375-04, STYLE 2	Avail.	
	BLF177		Class-AB	50	28	150	>20	>35	SOT121B	Avail.		
			Class-B	50	108	150	19 typ	70 typ				
		MRF157	Class-AB	50	30	600	21 typ	45 typ	368-03, STYLE 2	Avail.	Different Package	
		MRF154	Class-AB	50	30	600	17 typ	45 typ	368-03, STYLE 2	Avail.	Different Package	
		MRF151	Class-AB	50	30	150	18	40	211-11, STYLE 2	Avail.	Almost identical package	
		MRF150	Class-AB	50	30	150	17 typ	45 typ	211-11, STYLE 2	Avail.	Almost identical package	

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VHF	BLF147		Class-AB	28	28	150	>17	>35	SOT121B	Avail.	
			Class-B	28	108	150	14 typ	70 typ			
		MRF174	Class-AB	28	150	125	9	50			211-11, STYLE 2
		MRF141	Class-AB	28	30	150	18, 22 typ	40	211-11, STYLE 2	Avail.	Almost identical package
		MRF140	Class-AB	28	30	150	15	-	211-11, STYLE 2	Avail.	Almost identical package
	BLF246		Class-B	28	108	80	>16	>55	SOT121B	Avail.	
		MRF173	Class-AB	28	150	80	11, 13 typ	55, 60 typ	211-11, STYLE 2	Avail.	Almost identical package
		MRF173CQ	Class-AB	28	150	80	13 typ	65 typ	316-01, STYLE 2	Avail.	Different Package
	BLF246B		Class-AB	28	175	60	>14	>55	SOT161A	Avail.	
	BLF346		Class-A	28	225	>24, 30 typ	>14, 16.5 typ	-	SOT119A	Avail.	
		MRF173CQ	Class-AB	28	150	80	13 typ	65 typ	316-01, STYLE 2	Avail.	
	BLF245B		Class-B	28	175	30	>14	>55	SOT279A	Avail.	
		MRF136Y	Class-AB	28	150	30	14 typ	54 typ	319B, STYLE 1	Avail.	
	BLF245		Class-B	28	175	30	>13	>50	SOT123A	Avail.	
MRF171A		Class-AB	28	150	45	17	60	211-07, STYLE 2	Avail.		
		MRF137	Class-AB	28	150	30	13	60 typ	211-07, STYLE 2	Avail.	
BLF175		Class-AB	50	28	30	24 typ	40 typ	SOT123A	Avail.		
		Class-B	50	108	30	20 typ	65 typ				
		Class-A	50	28	8	>24	-				
	MRF148A	Class-AB	50	30	30	18 typ	40 typ	211-07, STYLE 2	Avail.		
BLF244		Class-B	28	175	15	>13	>50	SOT123A	Avail.		
	MRF136	Class-AB	28	150	15	16 typ	60 typ	211-07, STYLE 2	Avail.		
BLF242		Class-B	28	175	5	>13	>50	SOT123A	Avail.		
	MRF134	Class-AB	28	150	5	11	55 typ	211-07, STYLE 2	Avail.		
BLF404		Class-AB	12.5	500	4	>10	>50	SOT409A	Avail.		
BLF202		Class-B	12.5	175	2	>10	>50	SOT409A	Avail.		
HF	BLF145		Class-AB	28	28	30	20 typ	40 typ	SOT123A	Avail.	
			Class-A	28	28	8	24	-			
	BLF242		Class-B	28	175	5	>13	>50	SOT123A	Avail.	
		MRF134	Class-AB	28	150	5	11	55 typ	211-07, STYLE 2	Avail.	
BLF202		Class-B	12.5	175	2	>10	>50	SOT409A	Avail.		