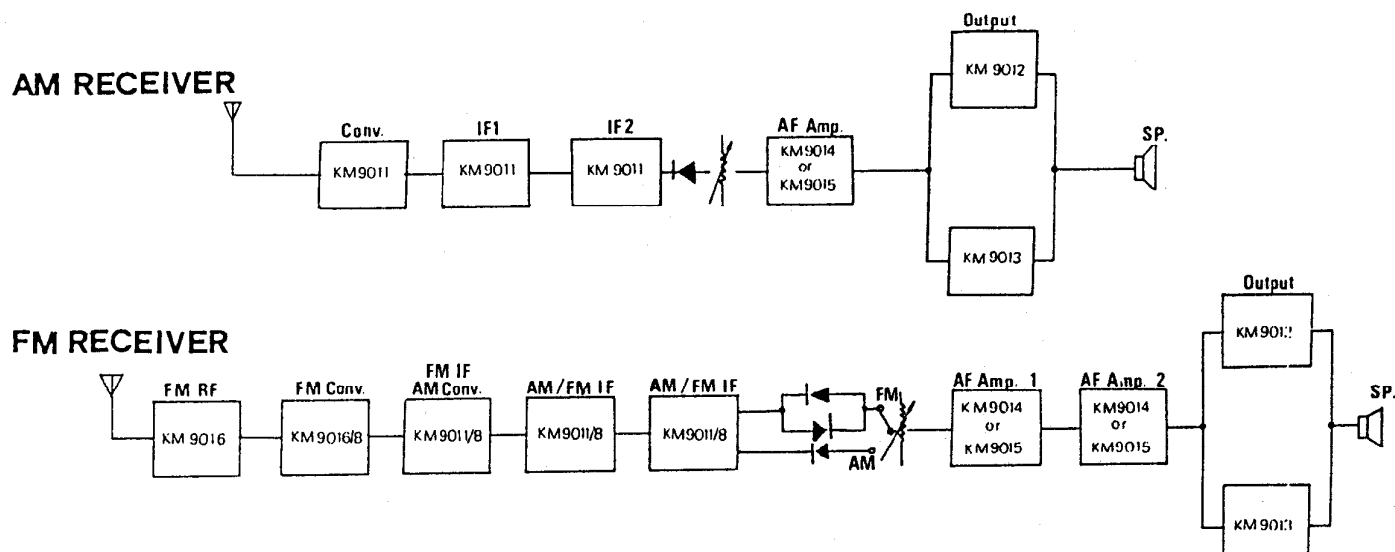


MICRO

**KM 9000
SERIES**

AM, FM RADIO
TRANSISTOR KIT

SELECTION GUIDE FOR AM / FM RADIO TRANSISTOR KIT



TYPE	POLARITY	APPLICATIONS	CASE
KM 9011	NPN	AM/FM IF, AM CONVERTER	TO-92A  EBC 
KM 9012	PNP	AUDIO POWER OUTPUT	
KM 9013	NPN	AUDIO POWER OUTPUT	
KM 9014	NPN	AUDIO DRIVER	
KM 9015	PNP	AUDIO DRIVER	
KM 9016	NPN	FM RF	
KM 9018	NPN	AM/FM IF, FM CONVERTER	



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HOME PAGE: <http://www.microelectr.com.hk>

DEVICE SPECIFICATIONS [$T_A = 25^\circ\text{C}$ unless otherwise specified]

TYPE	MAXIMUM RATINGS				ELECTRICAL CHARACTERISTICS																	
	V _{CB0} (V)	V _{CE0} (V)	V _{EB0} (V)	P _D (mW)	H _{FE}	I _{CB0} (nA)	V _{BE} (V)		I _C (mA)		V _{CE} (V)		V _{CE(sat)} (V)		f _T (MHz)		C _{ob} (pF)		C _{trbb} (pSec)	NF (dB)		
							typ	max	typ	max	typ	max	typ	max	min	typ	typ	max				
KM 9011	25	20	3	300	28 198	50	0.67	0.85	1	5	0.08	0.5	10	1	150	220	1	5	19	2.5	10	3 ^{2/}
KM 9012	25	20	5	500	64 350	500	0.7	0.85	10	1	0.2	0.6	250	25								
KM 9013	25	20	5	500	64 350	500	0.7	0.85	10	1	0.2	0.6	250	25								
KM 9014	25	20	5	500	60 1000	50	0.63	0.85	1	5	0.07	0.5	10	1	50	140	1	5	27	6	10	2 ^{3/}
KM 9015	25	20	5	500	60 1000	50	0.64	0.85	1	5	0.07	0.5	10	1	50	120	1	5	35	6	10	2 ^{3/}
KM 9016	25	20	3	300	28 198	50	0.72	0.85	1	5	0.14	0.5	10	1	500	800	5	5	11	1.6	10	3 ^{4/}
KM 9018	20	15	3	300	28 198	50	0.72	0.85	1	5	0.14	0.5	10	1	400	800	5	5	13	1.7	10	18

1/ : C_{trbb} @ $I_C = 1\text{mA}$ $V_{CE} = 5\text{V}$ $f = 31.8\text{MHz}$

2/ : NF @ $I_C = 1\text{mA}$ $V_{CE} = 5\text{V}$ $R_G = 500\Omega$ $f = 1\text{MHz}$

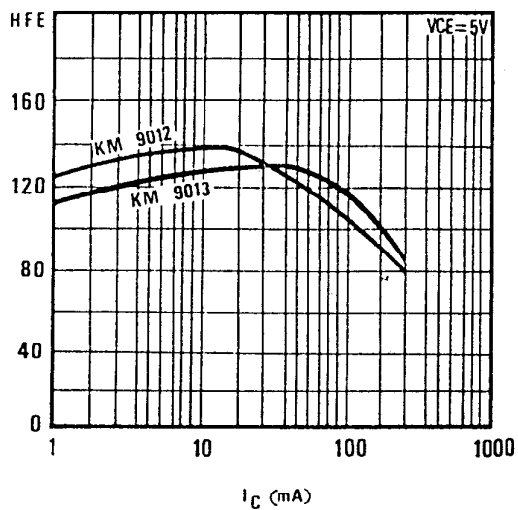
3/ : NF @ $I_C = 0.1\text{mA}$ $V_{CE} = 5\text{V}$ $R_G = 10k\Omega$ $f = 30\text{Hz to } 15\text{KHz}$

4/ : NF @ $I_C = 1\text{mA}$ $V_{CE} = 5\text{V}$ $R_G = 50\Omega$ $f = 100\text{MHz}$

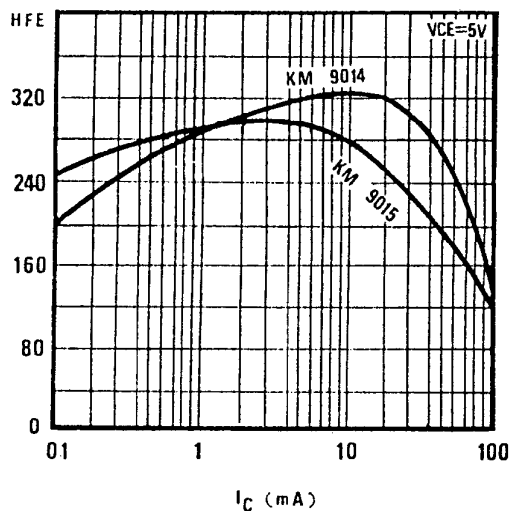
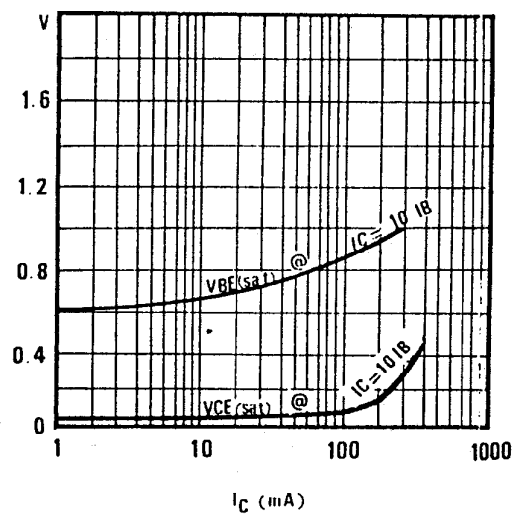
CLASSIFICATION OF HFE GROUPS

GROUP TYPE NO.	A	B	C	D	E	F	G	H	I	@ IC / VCE
KM 9011 KM 9016 KM 9018		-		28 - 45	39 - 60	54 - 80	72 - 108	97 - 146	132 - 198	1mA / 5V
KM 9014 KM 9015	60 - 150	100 - 300	200 - 600	400 - 1000						1mA / 5V
KM 9012 KM 9013				64 - 91	78 - 112	96 - 135	118 - 166	144 - 202	180 - 350	50mA / 1V

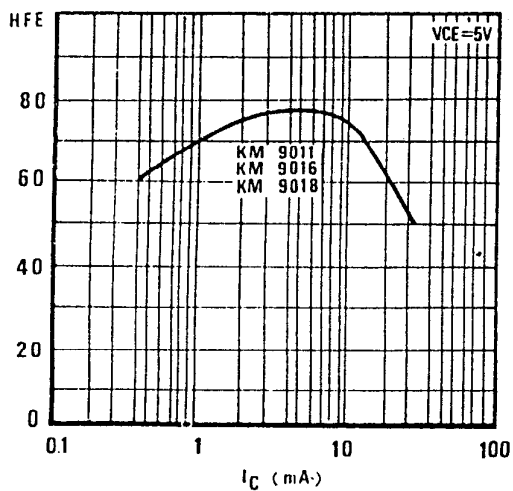
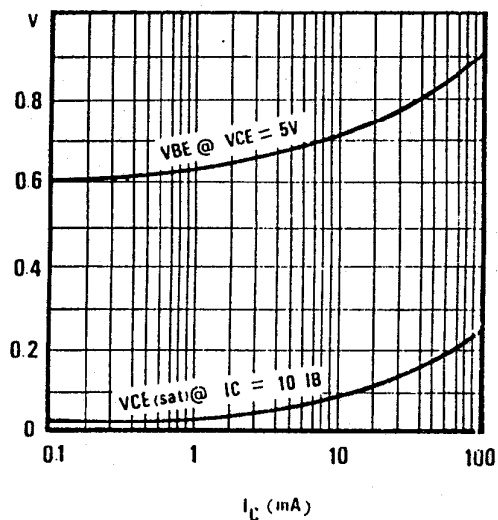
TYPICAL CHARACTERISTICS [$T_A = 25^\circ\text{C}$ unless otherwise specified]



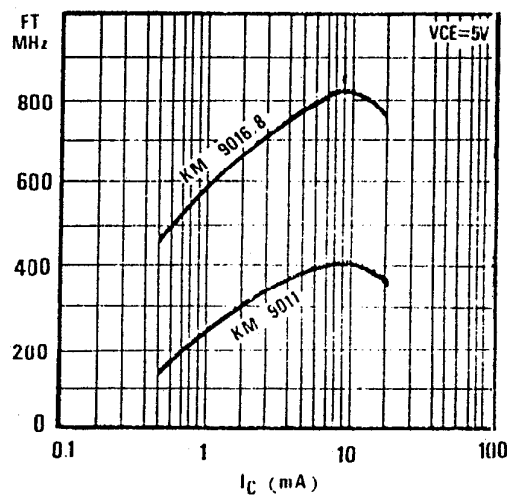
KM 9012
KM 9013



KM 9014
KM 9015

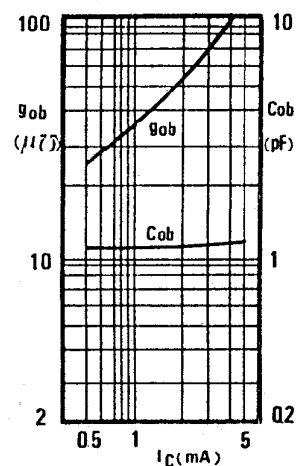
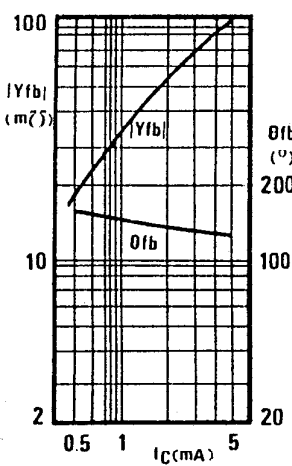
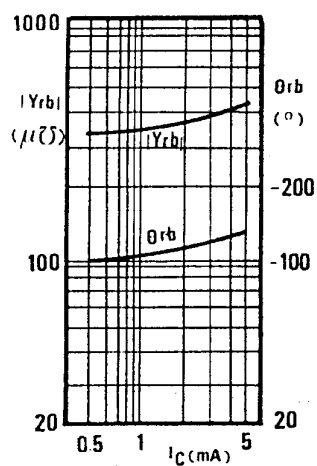
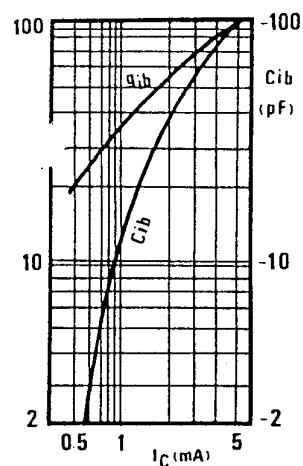


KM 9011
KM 9016
KM 9018

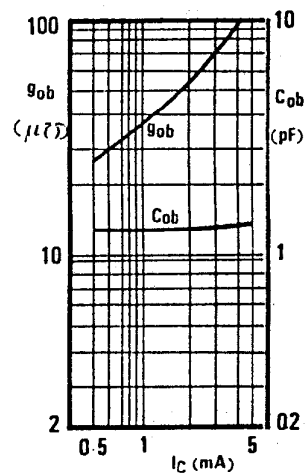
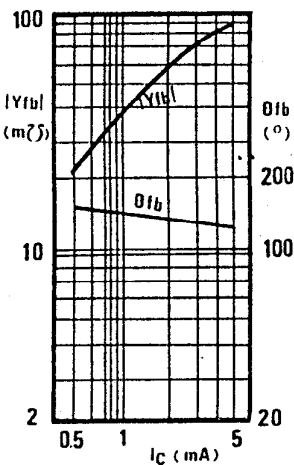
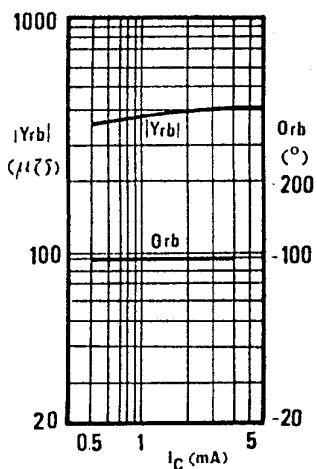
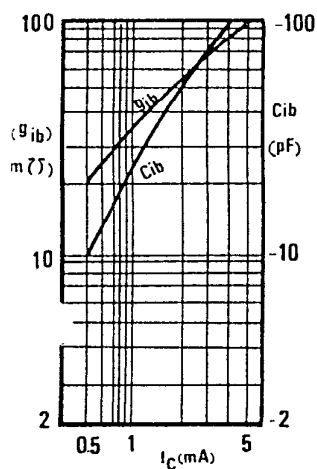


TYPICAL Y - PARAMETERS AT $T_A = 25^\circ\text{C}$

KM 9016 [COMMON BASE $f = 100\text{MHz}$ $V_{CB} = 5\text{V}$]



KM 9018 [COMMON BASE $f = 100\text{MHz}$ $V_{CB} = 5\text{V}$]



KM 9011 [COMMON EMITTER $f = 10.7\text{MHz}$ $V_{CB} = 5\text{V}$]

