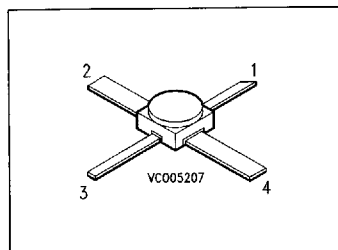


GaAs FET

CFY 10

- Low noise
- High gain
- Suitable up to 14 GHz
- Ion-implanted planar structure
- All gold metallization



ESD: Electrostatic discharge sensitive device, observe handling precautions!

Type	Marking	Ordering Code (tape and reel)	Pin Configuration				Package ¹⁾
			1	2	3	4	
CFY 10	A1	Q62703-F11	D	S	G	S	100 mil

Maximum Ratings

Parameter	Symbol	Values	Unit
Drain-source voltage	V_{DS}	5	V
Gate-source voltage	V_{GS}	- 5 ... + 0.5	
Drain current	I_D	100	mA
Total power dissipation	P_{tot}	500	mW
Channel temperature	T_{ch}	125	°C
Storage temperature range	T_{stg}	- 65 ... + 125	

Thermal Resistance

Channel - case	R_{thchC}	200	K/W
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¹⁾ For detailed information see chapter Package Outlines.

Electrical Characteristicsat $T_A = 25\text{ }^\circ\text{C}$, unless otherwise specified.

Parameter	Symbol	Values			Unit
		min.	typ.	max.	
Drain-source saturation current $V_{DS} = 4\text{ V}$, $V_{GS} = 0$	I_{DSS}	20	50	100	mA
Pinch-off voltage $V_{DS} = 4\text{ V}$, $I_D = 1\text{ mA}$	V_P	-0.5	-1.3	-4.0	V
Transconductance $V_{DS} = 4\text{ V}$, $I_D = 15\text{ mA}$	g_m	20	45	-	mS
Gate leakage current $V_{DS} = 4\text{ V}$, $I_D = 15\text{ mA}$	I_G	-	0.1	2.0	μA
Maximum available gain $I_{DS} = 30\text{ mA}$, $V_{DS} = 4\text{ V}$, $f = 4\text{ GHz}$ $f = 6\text{ GHz}$ $f = 12\text{ GHz}$	MAG	-	16.5 13 8	-	dB
Noise figure $V_{DS} = 4\text{ V}$, $I_{DS} = 15\text{ mA}$, $f = 4\text{ GHz}$ $f = 6\text{ GHz}$ $f = 12\text{ GHz}$	F_{min}	-	1.3 1.6 3.3	- 1.8 -	
Associated gain $V_{DS} = 4\text{ V}$, $I_{DS} = 15\text{ mA}$, $f = 4\text{ GHz}$ $f = 6\text{ GHz}$ $f = 12\text{ GHz}$	G_a	- 9.5 -	12 10 6.5	- - -	