

SANYO	No.661E	2SK212
		N-Channel Junction Silicon FET

FM Tuner Applications

Features

- Ideal for FM tuners in low-voltage radios, car radios, etc.
- Small-sized package permitting 2SK212-applied sets to be made small and slim.
- Small Crss (Crss=0.04pF typ).
- High $|Y_{fs}|$ ($|Y_{fs}| = 6.0\text{mS typ}$).

Absolute Maximum Ratings at Ta = 25°C

			unit
Gate-to-Drain Voltage	V _{GDO}	-20	V
Gate Current	I _G	10	mA
Drain Current	I _D	20	mA
Allowable Power Dissipation	P _D	200	mW
Junction Temperature	T _j	125	°C
Storage Temperature	T _{stg}	-55 to +125	°C

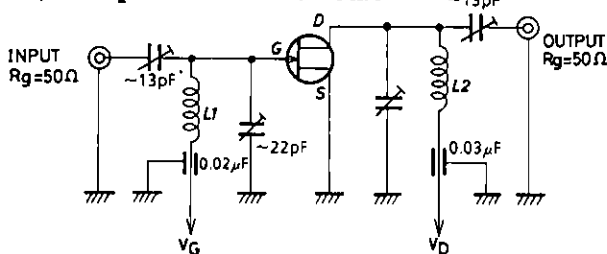
Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
G-D Breakdown Voltage	V _{(BR)GDO} I _G = -10μA		-20			V
Gate Cutoff Current	I _{GSS} V _{GS} = -0.5V, V _{DS} = 0				-10	nA
Drain Current	I _{DSS} V _{DS} = 5V, V _{GS} = 0		0.6※		12.0※	mA
Cutoff Voltage	V _{GS(off)} V _{DS} = 5V, I _D = 10μA				-2.5	V
Forward Transfer Admittance	$ Y_{fs} $ (1) V _{DS} = 5V, V _{GS} = 0, f = 1kHz		2.0	6.0		mS
		$ Y_{fs} $ (2) V _{DS} = 5V, V _{GS} = 0, f = 100MHz	2.0	6.0		mS
Input Capacitance	C _{iss} V _{DS} = 5V, V _{GS} = 0, f = 1MHz			4.0		pF
Reverse Transfer Capacitance	Cr _{ss} V _{DS} = 5V, V _{GS} = 0, f = 1MHz		0.04	0.15		pF
Output Capacitance	C _{oss} V _{DS} = 5V, V _{GS} = 0, f = 1MHz			4.0		pF
Power Gain	PG V _{DS} = 5V, V _{GS} = 0, f = 100MHz			21		dB
Noise Figure	NF	See specified Test Circuit.		3.5	6.0	dB

※ : The 2SK212 is classified by I_{DSS} as follows : (unit : mA)

0.6 C 1.5	1.2 D 3.0	2.5 E 6.0	5.0 F 12.0
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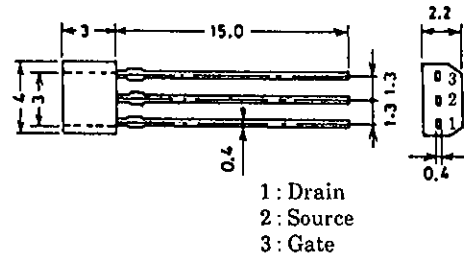
PG, NF Specified Test Circuit



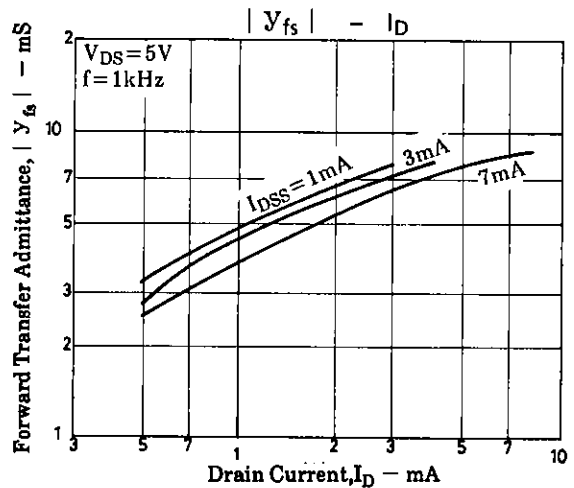
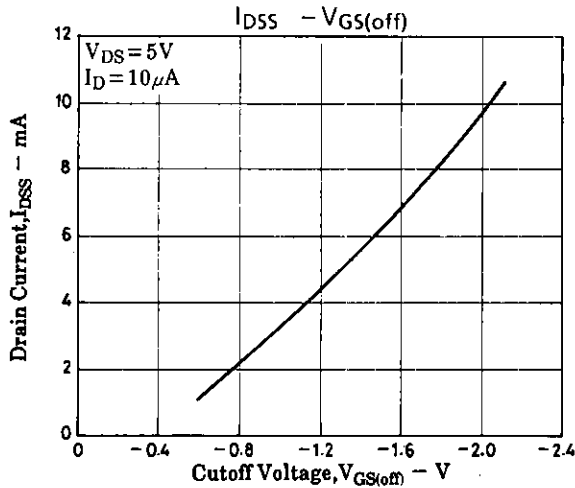
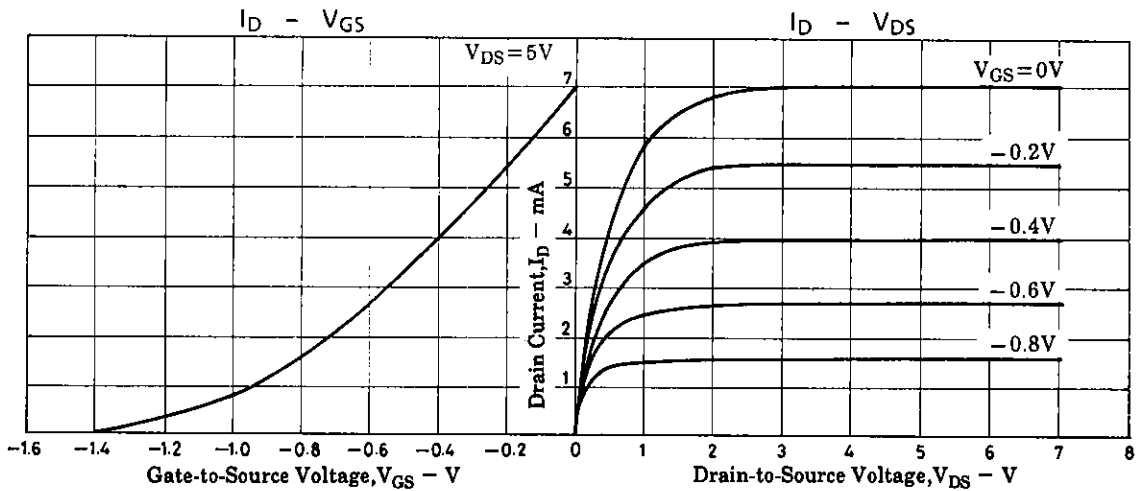
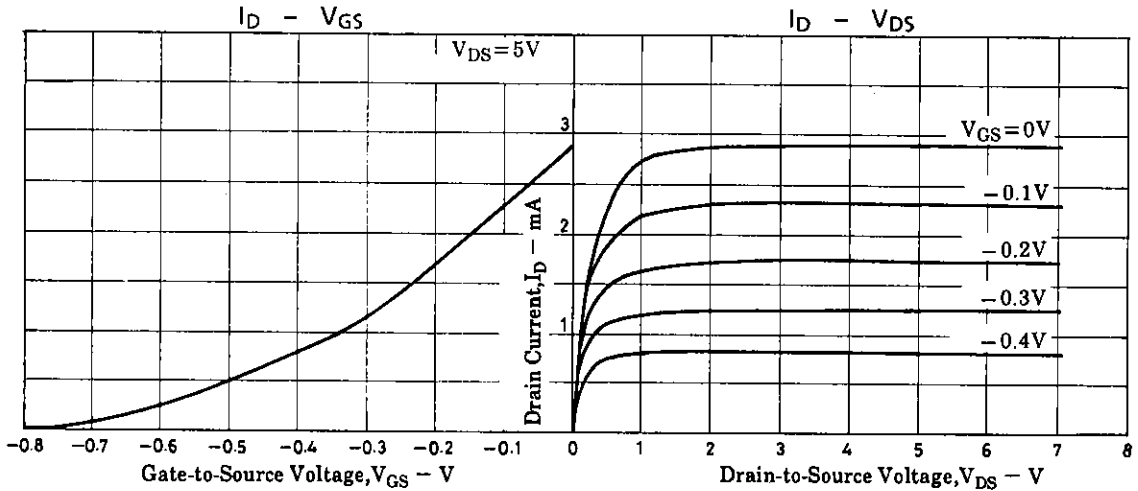
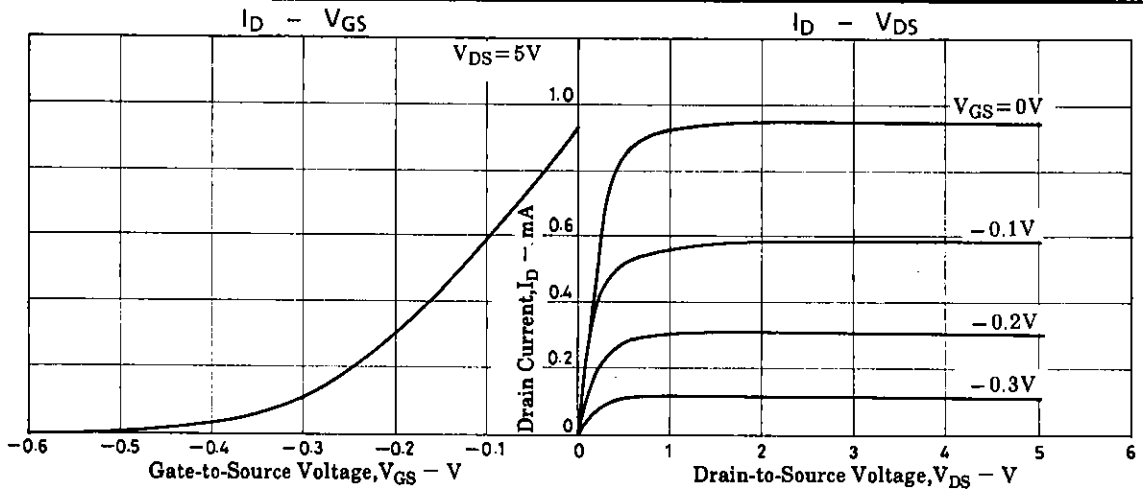
L1 : 1mmφ tin-plated wire, air core 10mmφ 4.5T
 L2 : 1mmφ tin-plated wire, air core 10mmφ 3.5T

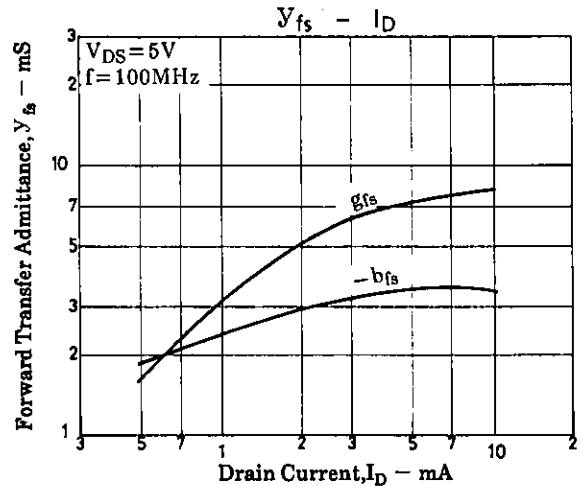
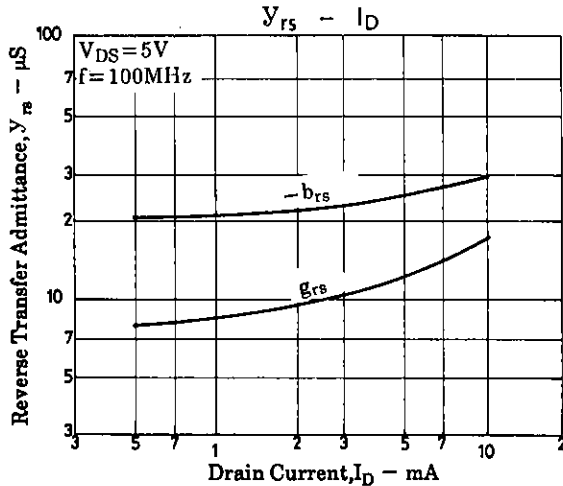
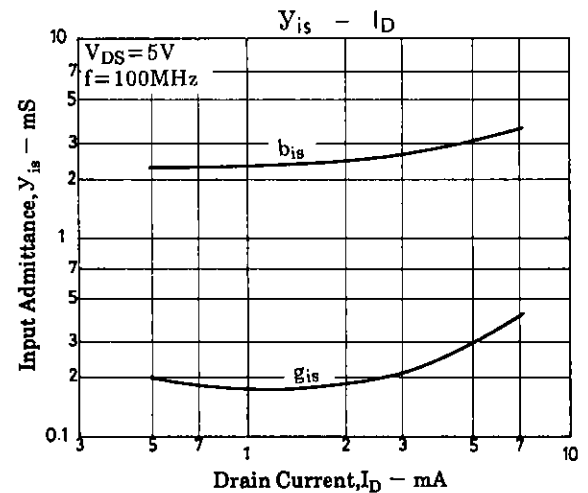
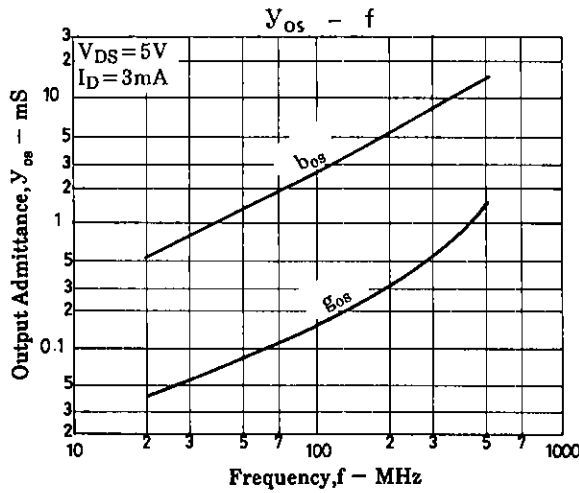
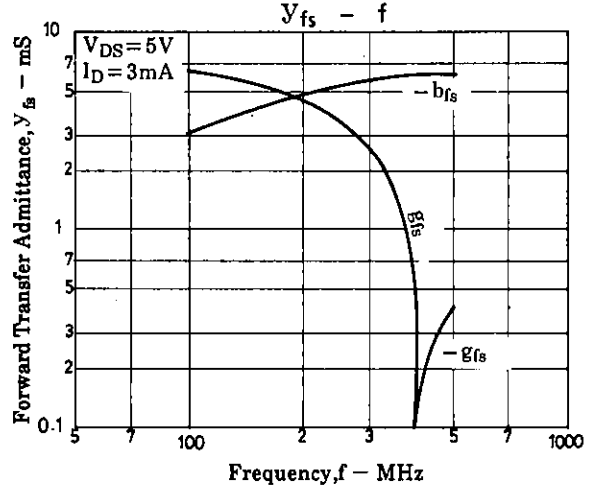
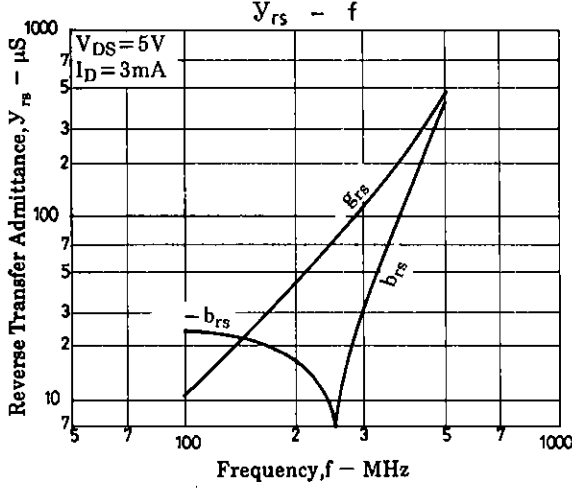
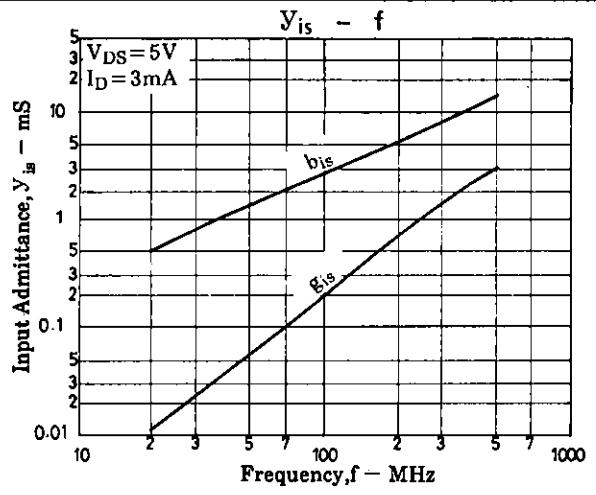
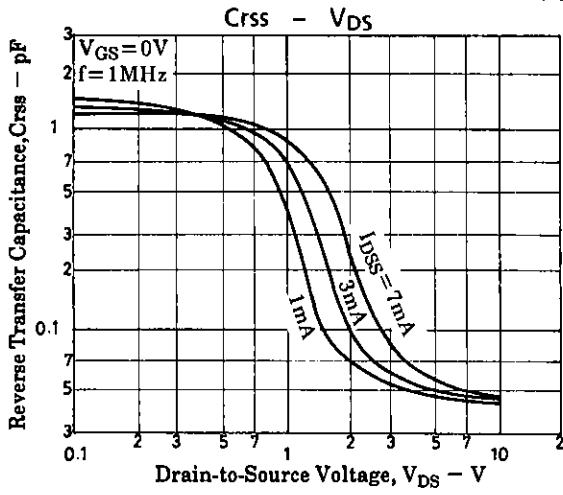
Package Dimensions 2040A

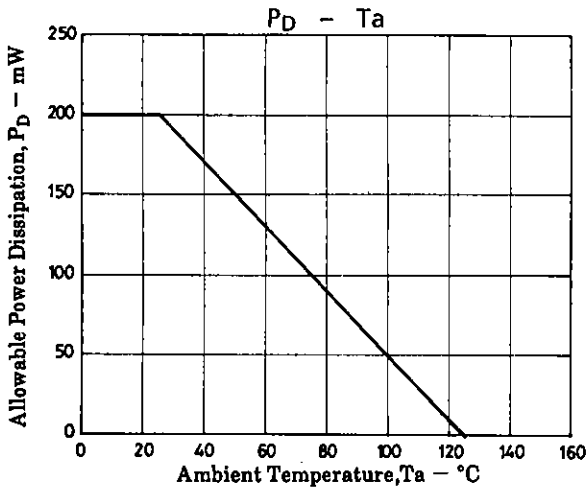
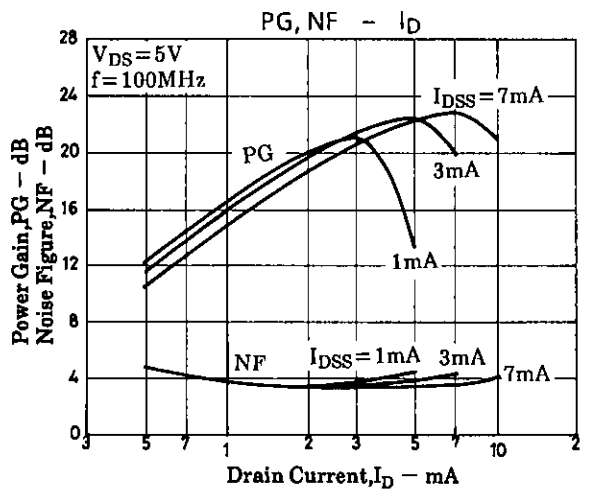
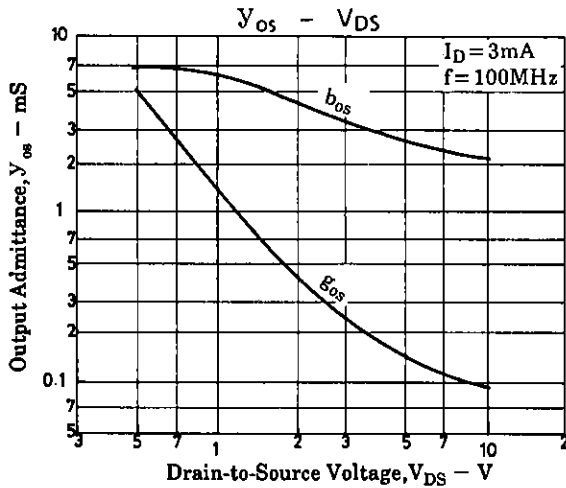
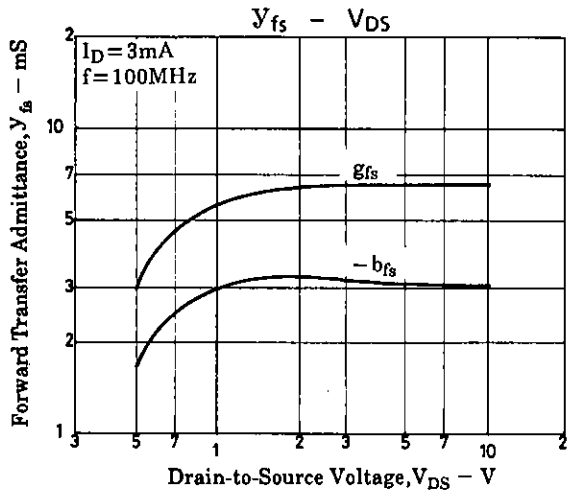
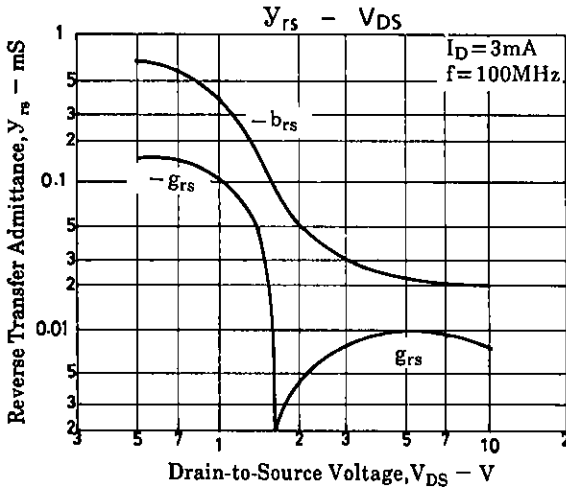
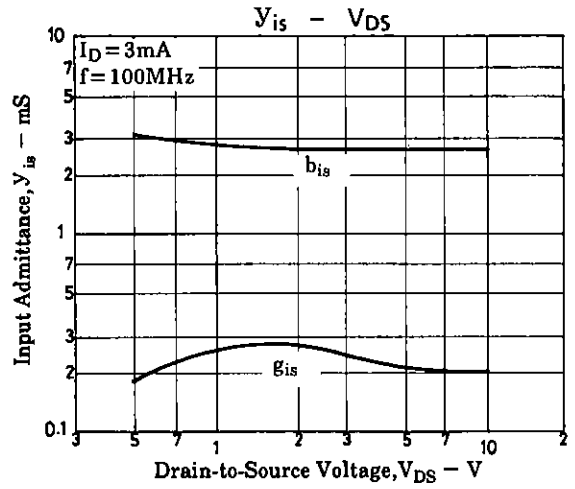
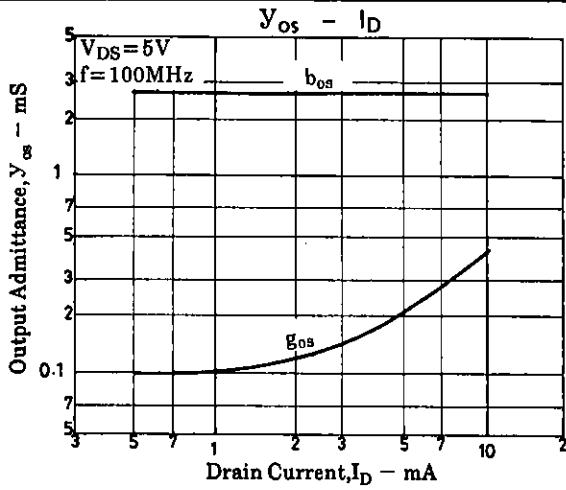
(unit : mm)



SANYO : SPA







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