 <p>IMS CONNECTOR SYSTEMS GMBH HF - Koaxialsteckverbinder und Mikrowellenbauteile R.F. and Microwave Coaxial Connector Products</p>	Formblatt-Nummer	Revision e Stand: 20.01.03	Blatt: 1 von: 3
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Teilenummer: 2421.99.0000.00'	Benennung: Schalter / Switch
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1. ELECTRICAL PARAMETERS		
Parameter	Requirement	Unit
Switch type	Single pole, switch over	
Frequence range	400 – 2000	MHz
Nominal impedance	50	Ohm
Insertion loss, COM to EXT	Max. 0.4	dB
Insertion loss, EXT to INT	Max. 0.3	dB
Isolation, EXT to INT	Min. 20	dB
Return loss, at COM-port	Min. 15	dB
Contact resistance	Max. 25	mOhm
Power rating	2	W, 100 % duty cycle
Insulation resistance (DC 250V)	Min. 1000	MOhm

Bearbeitet von: Zech	Erstelldatum: 29.05.98	Unterschrift:
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 <small>HF- Koaxialsteckverbinder und Mikrowellenbauteile R.F. and Microwave Coaxial Connector Products</small>	Formblatt-Nummer	Revision e	Blatt: 2
		Stand: 20.01.03	von: 3

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2. MECHANICAL PARAMETERS

2.1 Overall dimensions: see drawing 2421.99.0000.00'

2.2 Materials and plating


Part	Materials	Plating
Switch housing	Copper alloy to bash in	Pallatronic S: 2 µm Optalloy (55% Cu, 25-30% Sn, 15-20% Zn) + 0,1 µm Pallatronic
Switch insulators	PPS-FORTRON (thermoplastic)	
Switch contacts	Phosphorous copper alloy Beryllium copper alloy Optional: Stainless steel / Spring bronze	Contact point / Soldering area: 2 µm Ni + 0.4 (0.2) µm gold
Switch gasket ¹⁾	Silicone elastomer 50/60 shore A colour: black	

1) Fixing of the gasket has to be so that the gasket does not come off when the switch is turned upside-down.

2.3 Reliability

- Life time: 20.000 mating cycles
- Self cleaning contacts

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2.4 Extraction force

Max. extraction force when disconnecting the plug from the receptacle: typ. 2.2 N

2.5 Connection Method

Device must be reflow-solderable

2.6 Co-planarity

Solderable leads deviation from the reference plane: +0.10

2.7 Environmental requirements

2.71	Operational temperature:	-30°C (16 h) +55°C (16 h)
2.72	Storage temperature:	-40°C (16 h) +85°C (16 h)
2.73	Shelf life	6 month - 22°C - 70% humidity
2.74	Damp heat	IEC 68-2-30 Dp
2.75	Salt spray	IEC 68-2-52 Kb
2.76	Temperature change	IEC 68-2-14 Nb

2.8 SMD-solderability

Accordinging Nokia Mobile Phones specification MES00025 8.0, but no manual hot gas soldering or soldering by using the soldering iron is allowed.

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