Vishay Thin Film Surface Mount Devices

Networks: MPM / ORN / DFN / CSO / QFN

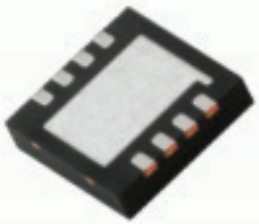
Chips: PNM / PCNM / M- / FC / PLTU

Medical Products

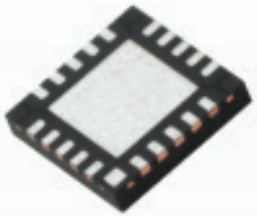
MPM Series

ORN Series

NOMC Series

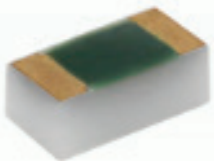


DFN Series

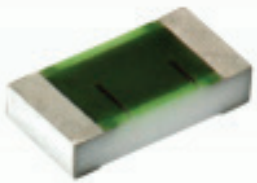


QFN Series

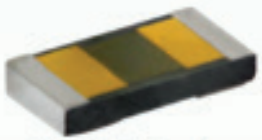
PNM Series



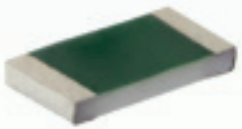
FC Series



M Series



PCMN Series



PLTU Series

Medical Applications

- Cardiac Rhythm Management
- CT Scanning, Ultrasound Equipment
- Current Limiting
- Diagnostic Equipment
- Glucose Monitor
- Medical Imaging: MRI Equipment
- Medical Instrumentation
- Medical Monitoring Equipment
- Oxygen and Heartbeat Monitor
- Portable Oxygen
- Power Supplies
- Signal Conditioning
- Wireless Technology

The Vishay Thin Film Advantage

Surface Mount Chips

Series	Technology	Substrate	TCR (Best)	Tolerance (Best)	Advantage
PNM	Tantalum Nitride Thin Film	Alumina	25 ppm/°C	0.10 %	• Non Magnetic • Moisture Resistant
PCMN	Nichrome Thin Film	Aluminum Nitride	25 ppm/°C	0.10 %	• Non Magnetic • High Thermal Conductivity • High Power Capability
M-	Ruthenium Thick Film	Alumina	100 ppm/°C	0.50 %	• High Reliability • High Power Dissipation
FC	Passivated Nichrome Thin Film	Alumina	25 ppm/°C	0.10 %	• High Frequency • Low Internal Reactance
PLTU	Passivated Nichrome Thin Film	Alumina	2 ppm/°C	0.01 %	• Ultra precision TCR & Tolerance • Ultra High Stability

Surface Mount Networks

Series	Technology	Substrate	Body	Size	Features/Benefits
MPM	Passivated Nichrome Thin Film	Silicon	Molded Epoxy	SOT-23 Divider	• Tight TCR Tracking to 2 ppm/°C • High Precision Ratio Tol Divider
ORN	Passivated Nichrome Thin Film	Silicon	Molded Epoxy	SOIC 8 Pin	• Signal Processing • Amplifier Gain Setting
NOMC	Passivated Nichrome or Tantalum Nitride Thin Film	Silicon	Molded Epoxy	SOIC 14, 16 Pin	• Exceptional Resistance Ratio Stability • Very low inductance and noise
DFN	Passivated Nichrome Thin Film	Ceramic	Molded Epoxy	8 Pin Dual Flat No-Lead	• Low profile • Customizable schematics
QFN	Passivated Nichrome Thin Film	Silicon	Molded Epoxy	20 Pin Dual Flat No-Lead	• Precision voltage divider & Bridge Network circuitry

For technical questions: thinfilm@vishay.com