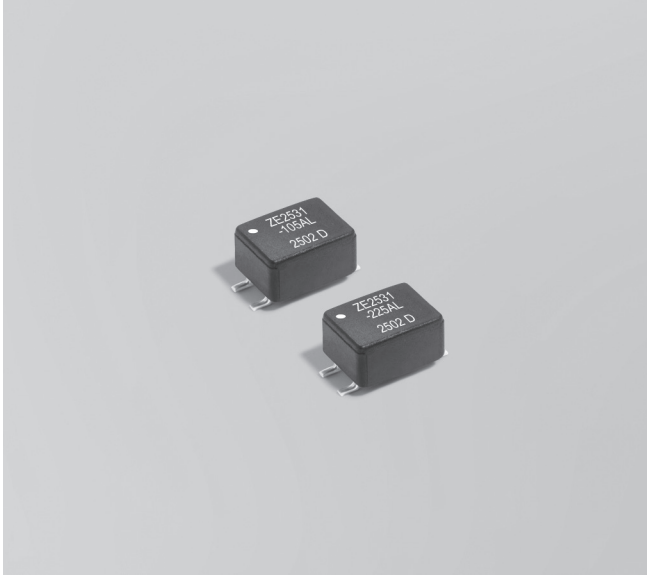


NEW!

SMT Isolation Transformers ZE2531



- Isolation transformer designed for 10Base-T1L applications
- Compliant with IEEEE802.3cg standard
- 3000 VDC, one minute isolation (hipot) between windings
- AEC-Q200 qualified

Core material Ferrite
Environmental RoHS compliant
Terminations RoHS compliant matte tin over nickel over phos-bronze
Weight 290 – 310 mg
Ambient temperature -40°C to +125°C with Irms current
Maximum part temperature +140°C (ambient + temp rise)
Storage temperature Component: -40°C to +140°C.
 Tape and reel packaging: -40°C to +80°C
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)
Packaging 250/7" reel; 1000/13" reel Plastic tape: 16 mm wide, 0.4 mm thick, 12 mm pocket spacing, 4.8 mm pocket depth
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Inductance ² at 0 A ±30% (mH)	Leakage Inductance ³ typ (µH)	DCR max (Ohms)	Turns ratio pri:sec	Isolation ⁴ (VDC)	Irms ⁵ (mA)
ZE2531-105L_	1.0	0.090	0.185	1 : 1	3000	1000
ZE2531-225L_	2.2	0.130	0.516	1 : 1	3000	520

1. When ordering, please specify **packaging** code:

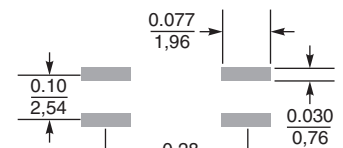
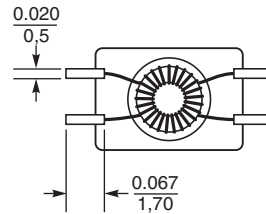
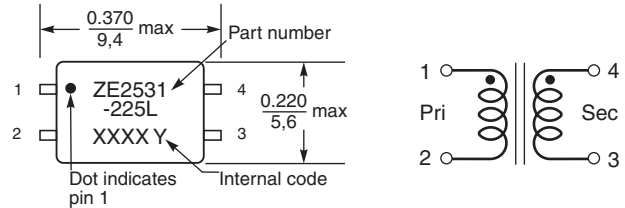
ZE2531-225LC

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).

- Inductance is measured at 100 kHz, 0.1 Vrms, 0 ADC.
- Leakage inductance is measured on pins 1 and 2 with the same test parameters as inductance with pins 3 and 4 shorted.
- 3000 VDC, 2000 Vrms, one minute isolation (hipot) between primary to secondary.
- Irms current is the current when applied to both windings in series that causes a 40°C temperature rise from room temperature.
- Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Recommended Land Pattern

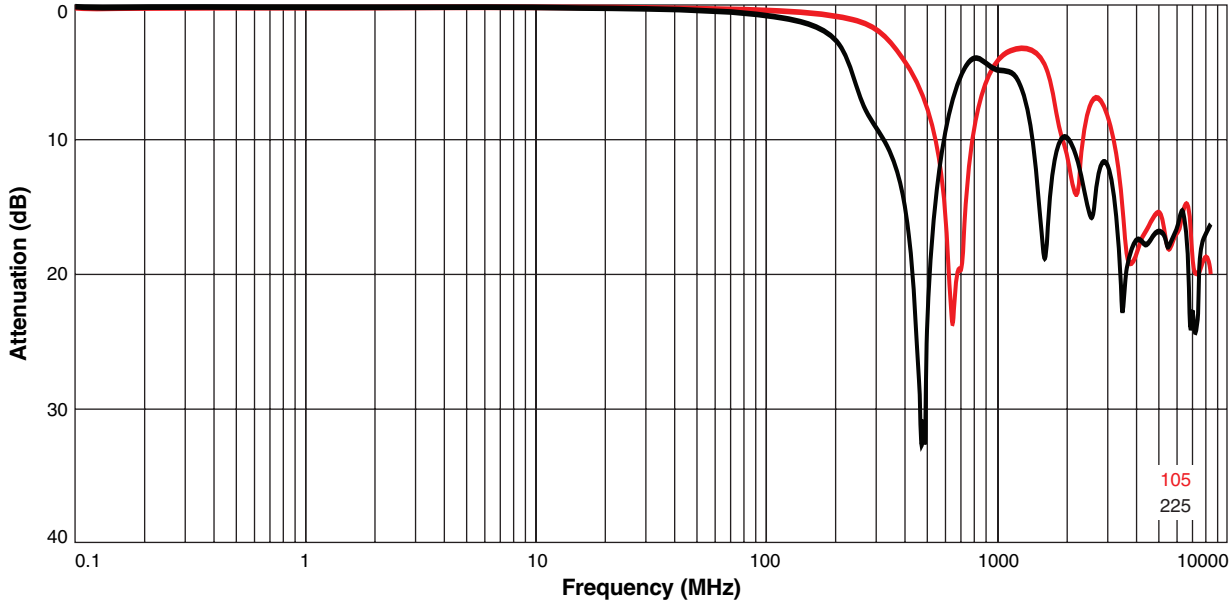
Dimensions are in $\frac{\text{inches}}{\text{mm}}$



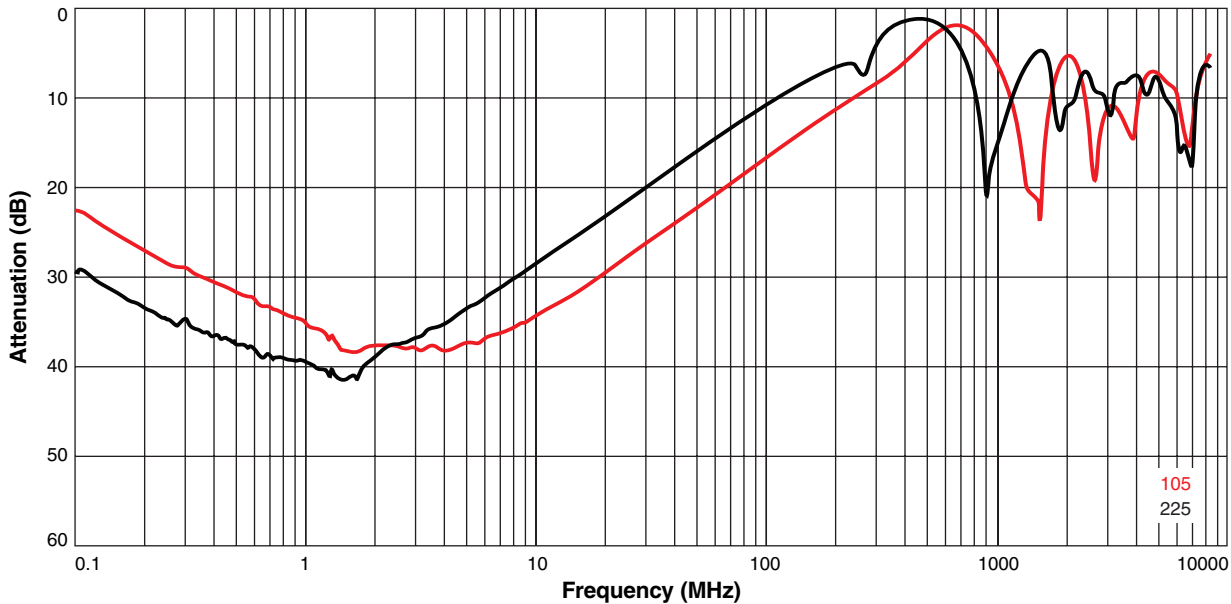
SMT Isolation Transformers – ZE2531

Attenuation vs Frequency

Insertion Loss Sdd21



Return Loss Sdd11



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